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DECEMBER, 1909

NO. 5

# BULLETIN OF BROWN UNIVERSITY

THE CATALOGUE

1909-1910



PROVIDENCE  
PUBLISHED BY THE UNIVERSITY

[APRIL, MAY, JUNE, OCTOBER, DECEMBER]

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Correspondence addressed simply to Brown University, Providence, Rhode Island, may be expected to reach the proper department, but in order to avoid delay correspondents are requested to note the following directions:

Communications relating to matters directly in the charge of the Corporation, and all correspondence bearing upon the general interests of the University, should be addressed to the President.

Requests for the Annual Catalogue and other publications, and inquiries relating to the admission of Undergraduate students, should be addressed to the Registrar.

Inquiries concerning scholarships and other matters pertaining to Undergraduate students should be addressed to the Dean of the University.

Inquiries in regard to the Graduate Department should be addressed to the Dean of the Graduate Department.

Inquiries concerning the Women's College should be addressed to the Dean of the Women's College, Pembroke Hall.

Inquiries or information concerning Alumni should be sent to the Keeper of Graduate Records, University Library.

THE CATALOGUE  
OF  
BROWN UNIVERSITY

ONE HUNDRED AND FORTY-SIXTH YEAR

1909-1910



PROVIDENCE, RHODE ISLAND  
PUBLISHED BY THE UNIVERSITY  
1909

D. B. UPDIKE, THE MERRYMOUNT PRESS, BOSTON



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# CALENDAR 1909-1910

*Vacations and holidays occurring within the academic year 1909-10 are indicated by dark type.*

| 1909                 | 1910                 | 1910                 |
|----------------------|----------------------|----------------------|
| <b>JULY</b>          | <b>JAN.</b>          | <b>JULY</b>          |
| S M T W T F S        | S M T W T F S        | S M T W T F S        |
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| 25 26 27 28 29 30 31 | 23 24 25 26 27 28 29 | 24 25 26 27 28 29 30 |
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| <b>AUG.</b>          | <b>FEB.</b>          | <b>AUG.</b>          |
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| 22 23 24 25 26 27 28 | 20 21 22 23 24 25 26 | 21 22 23 24 25 26 27 |
| 29 30 31 .....       | 27 28 .....          | 28 29 30 31 .....    |
| <b>SEPT.</b>         | <b>MAR.</b>          | <b>SEPT.</b>         |
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| 19 20 21 22 23 24 25 | 20 21 22 23 24 25 26 | 18 19 20 21 22 23 24 |
| 26 27 28 29 30 ..... | 27 28 29 30 31 ..... | 25 26 27 28 29 30 .. |
| <b>OCT.</b>          | <b>APR.</b>          | <b>OCT.</b>          |
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| <b>NOV.</b>          | <b>MAY</b>           | <b>NOV.</b>          |
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| 21 22 23 24 25 26 27 | 22 23 24 25 26 27 28 | 20 21 22 23 24 25 26 |
| 28 29 30 .....       | 29 30 31 .....       | 27 28 29 30 .....    |
| <b>DEC.</b>          | <b>JUNE</b>          | <b>DEC.</b>          |
| ..... 1 2 3 4        | ..... 1 2 3 4        | ..... 1 2 3          |
| 5 6 7 8 9 10 11      | 5 6 7 8 9 10 11      | 4 5 6 7 8 9 10       |
| 12 13 14 15 16 17 18 | 12 13 14 15 16 17 18 | 11 12 13 14 15 16 17 |
| 19 20 21 22 23 24 25 | 19 20 21 22 23 24 25 | 18 19 20 21 22 23 24 |
| 26 27 28 29 30 31 .. | 26 27 28 29 30 ..... | 25 26 27 28 29 30 31 |

# THE UNIVERSITY CALENDAR 1909-10

1909

- SEPTEMBER 1. *Wednesday.* Annual Meeting of the Corporation (first Wednesday in September).
- SEPTEMBER 16-21. *Thursday, Friday, Saturday, Monday, and Tuesday.* Examinations for admission to the Freshman class and to advanced standing.
- SEPTEMBER 20, 21. *Monday and Tuesday.* Registration of new students and enrolment of students previously in residence.
- SEPTEMBER 22. *Wednesday.* ACADEMIC YEAR BEGINS (fourth Wednesday in September). Last day for registration of Graduate students.
- OCTOBER 2. *Saturday.* Examination in Greek for the President's Premiums, 5 Maxcy Hall, 2.30 p.m.
- OCTOBER 6. *Wednesday.* Examination in Latin for the President's Premiums, 1 Sayles Hall, 2.30 p.m.
- OCTOBER 9. *Saturday.* Examination in Mathematics for the Hartshorn Premiums, 27 Wilson Hall, 2 p.m.
- OCTOBER 13. *Wednesday.* Examination in French for the President's Premiums, 1 Sayles Hall, 2.30 p.m.
- OCTOBER 16. *Saturday.* Examination in German for the Cæsar Misch Premiums, 5 Sayles Hall, 2.30 p.m.
- NOVEMBER 25. *Thursday.* Thanksgiving Day. No University exercises.
- DECEMBER 14-22. *Tuesday to Wednesday.* Term examinations.
- DEC. 23, 1909 to }  
JANUARY 4, 1910. } *Thursday to Tuesday.* CHRISTMAS RECESS.

1910

- JANUARY 3, 4. *Monday and Tuesday.* Enrolment of Undergraduate students.
- JANUARY 5. *Wednesday.* SECOND TERM BEGINS.

|               |   |
|---------------|---|
| JANUARY 24.   | <i>Monday.</i> Last day for receiving essays submitted in competition for the Class of 1880 Prizes.   |
| JANUARY 25.   | <i>Tuesday.</i> Preliminary discussion for the Class of 1880 Prizes.  |
| FEBRUARY 1.   | <i>Tuesday.</i> Last day for applications of competitors for the Carpenter Prizes in Elocution.<br>Public discussion for the Class of 1880 Prizes.  |
| FEBRUARY 22.  | <i>Tuesday.</i> Washington's Birthday. No University exercises.   |
| MARCH 14-22.  | <i>Monday to Tuesday.</i> Term examinations.  |
| MARCH 23-29.  | <i>Wednesday to Tuesday.</i> SPRING RECESS.   |
| MARCH 28, 29. | <i>Monday and Tuesday.</i> Enrolment of Undergraduate students.   |
| MARCH 30.     | <i>Wednesday.</i> THIRD TERM BEGINS.  |
| APRIL 1.      | <i>Friday.</i> Last day for receiving applications for examination for the degree of Doctor of Philosophy, or of Master of Arts <i>in absentia</i> .  |
| APRIL 2.      | <i>Saturday.</i> Last day for receiving essays submitted in competition for the Gaston Prize Medal.   |
| APRIL 30.     | <i>Saturday.</i> Last day for receiving theses of candidates for the degree of Doctor of Philosophy.<br>Last day for receiving applications for the Grand Army of the Republic Fellowship.<br>Last day for receiving Commencement orations. |
| MAY 3.        | <i>Tuesday.</i> Carpenter Prize Speaking Contest.   |
| MAY 7.        | <i>Saturday.</i> Last day for receiving essays submitted in competition for the Bishop McVickar prizes.   |
| MAY 10.       | <i>Tuesday.</i> Gaston Prize Medal Competition.   |
| MAY 17.       | <i>Tuesday.</i> Hicks Prize Debate.   |
| MAY 30.       | <i>Monday.</i> Memorial Day. No University exercises.   |
| JUNE 1.       | <i>Wednesday.</i> Last day for examinations for advanced degrees.   |
| JUNE 2-10.    | <i>Thursday to Friday.</i> Term examinations.   |



- JUNE 12. *Sunday.* Baccalaureate Sermon, First Baptist Meeting House, 4.30 p.m.
- JUNE 13. *Monday.* Class Day.
- JUNE 14. *Tuesday.* Annual Meeting of the Phi Beta Kappa Society, Administration Building, 9.30 a.m.  
Ivy Day, Pembroke Hall.  
Annual Meeting of the Associated Alumni, Manning Hall, 2 p.m.  
Oration before the Associated Alumni, Sayles Memorial Hall, 4 p.m.
- JUNE 15. *Wednesday.* ONE HUNDRED AND FORTY-SECOND ANNUAL COMMENCEMENT (third Wednesday in June), First Baptist Meeting House, 10 a.m.
- JUNE 16. *Thursday.* Meeting of the Corporation.
- JUNE 16 to SEPT. 27. SUMMER VACATION.
- SEPTEMBER 7. *Wednesday.* Annual Meeting of the Corporation (first Wednesday in September).
- SEPTEMBER 21-27. *Wednesday, Thursday, Friday, Saturday, Monday, and Tuesday.* Examinations for admission to the Freshman class and to advanced standing.
- SEPTEMBER 26, 27. *Monday and Tuesday.* Registration of new students and enrolment of students previously in residence.
- SEPTEMBER 28. *Wednesday.* ACADEMIC YEAR BEGINS (fourth Wednesday in September).

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\* Deceased.

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\* Deceased.

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## ON THE CARPENTER PRIZE FUND

Messrs. LAPHAM and GREEN.

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Messrs. SHARPE and GREEN.

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*Professor of Social and Political Science*

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| ALBERT KNIGHT POTTER, A.M.<br><i>Associate Professor of the English Language</i>                   | 212 Waterman Street             |
| ALBERT BUSHNELL JOHNSON, A.M.<br><i>Associate Professor of the Romance Languages</i>               | 168 Walnut St., East Providence |
| FREDERIC POOLE GORHAM, A.M.<br><i>Associate Professor of Biology</i>                               | 151 Meeting Street              |
| ARTHUR EUGENE WATSON, PH.D.<br><i>Assistant Professor of Physics</i>                               | 30 Congdon Street               |



# OFFICERS OF ADMINISTRATION AND INSTRUCTION 15

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|--|----------------------|
| ALEXANDER MEIKLEJOHN, PH.D.  | 30 Cushing Street    |
| <i>Dean of the University ; Professor of Logic and Metaphysics</i>                     |                      |
| JOHN FRANCIS GREENE, A.M.  | 47 George Street     |
| <i>Assistant Professor of Roman Literature and History</i>                             |                      |
| WILLIAM MACDONALD, PH.D., LL.D.  | 127 Waterman Street  |
| <i>George L. Littlefield Professor of American History</i>                             |                      |
| JOHN EMERY BUCHER, PH.D.   | 35 Humboldt Avenue   |
| <i>Associate Professor of Organic Chemistry</i>  |                      |
| HENRY THATCHER FOWLER, PH.D.   | 127 Lloyd Avenue     |
| <i>Professor of Biblical Literature and History</i>                                    |                      |
| LINDSAY TODD DAMON, A.B.   | 2 University Hall    |
| <i>Professor of Rhetoric</i>   |                      |
| WILLIAM HERBERT KENERSON, M.E., A.M.   | 100 Morris Avenue    |
| <i>Associate Professor of Mechanical Engineering</i>                                   |                      |
| †GEORGE WYLLYS BENEDICT, PH.D.   | 16 John Street       |
| <i>Associate Professor of English</i>  |                      |
| THOMAS CROSBY, A.M.  | 49 George Street     |
| <i>Assistant Professor of English and Public Speaking</i>                              |                      |
| JOHANNES BENONI EDUARD JONAS, PH.D.  | 7 Barnes Street      |
| <i>Assistant Professor of the Germanic Languages and Literatures</i>                   |                      |
| HENRY BARRETT HUNTINGTON, A.B.   | 153 Power Street     |
| <i>Assistant Professor of English</i>  |                      |
| †ARTHUR HORACE BLANCHARD, C.E., A.M.   | 62 University Avenue |
| <i>Associate Professor of Civil Engineering</i>  |                      |
| GEORGE PARKER WINSHIP, A.M.  | 31 Benevolent Street |
| <i>Librarian of the John Carter Brown Library</i>                                      |                      |
| LIDA SHAW KING, A.M.   | 8 Cushing Street     |
| <i>Dean of the Women's College ; Professor of Classical Literature and Archaeology</i> |                      |
| FREDERICK WILLIAM MARVEL, PH.B.  | 281 Olney Street     |
| <i>Professor of Physical Training</i>  |                      |
| JAMES FRANKLIN COLLINS, PH.B.  | 468 Hope Street      |
| <i>Assistant Professor of Botany and Curator of the Herbarium</i>                      |                      |
| ANSEL BROOKS, PH.B., M.E.  | 39 Benevolent Street |
| <i>Associate Professor of Mechanics and Mechanical Drawing</i>                         |                      |
| CAMILLO VON KLENZE, PH.D.  | 125 Lloyd Avenue     |
| <i>Professor of the Germanic Languages and Literatures</i>                             |                      |
| LESTER FRANK WARD, LL.D.   | 49 Waterman Street   |
| <i>Professor of Sociology</i>  |                      |

† On leave of absence during the academic year 1909-10.

|   |                        |
|---|------------------------|
| CHARLES WILSON BROWN, A.M.<br><i>Assistant Professor of Geology</i>   | 19 Diman Place         |
| THURSTON MASON PHETTEPLACE, PH.B., M.E.<br><i>Assistant Professor of Mechanical Engineering</i>             | 1612 Broad Street      |
| HERBERT EUGENE WALTER, PH.D.<br><i>Assistant Professor of Biology</i>                                       | 53 Arlington Avenue    |
| WILLIAM KIRK, PH.D.<br><i>Assistant Professor of Political Economy</i>                                      | 9 John Street          |
| ROLAND GEORGE DWIGHT RICHARDSON, PH.D.<br><i>Assistant Professor of Pure Mathematics</i>                    | 256 Doyle Avenue       |
| CLINTON HARVEY CURRIER, A.M.<br><i>Instructor in Mathematics</i>  | 4 University Hall      |
| FRANK TAYLOR FULTON, Sc.B., M.D.<br><i>Instructor in Pathology and Histology</i>                            | 169 Angell Street      |
| CHARLES HERMAN HUNKINS, A.B.<br><i>Instructor in French</i>   | 107 Angell Street      |
| HOWARD BRISTOL GROSE, JR., PH.B.<br><i>Instructor in English</i>  | 41 Waterman Street     |
| ALICE WILSON WILCOX, A.M.<br><i>Instructor in Physiology and Household Economics in the Women's College</i> | 165 Prospect Street    |
| WILLIAM THOMSON HASTINGS, A.M.<br><i>Instructor in English</i>  | 16 John Street         |
| PHILIP HENRY MITCHELL, PH.D.<br><i>Instructor in Physiology</i>   | 157 Williams Street    |
| ROBERT McBURNEY MITCHELL, A.B.<br><i>Instructor in German</i>   | 144 Congdon Street     |
| WILLIAM ARTHUR KENNEDY, PH.B., Sc.B.<br><i>Instructor in Mechanical Drawing</i>                             | 31 Forest Street       |
| STANLEY BATES HARKNESS, A.B.<br><i>Instructor in English</i>  | 41 Waterman Street     |
| HENRY ENGLANDER, PH.D.<br><i>Lecturer in Biblical Literature and History</i>                                | 181 Reynolds Avenue    |
| HENRY BERNARDIN DROWNE, C.E.<br><i>Instructor in Civil Engineering</i>                                      | 12 Brunonia Hall       |
| †RAYMOND CLARE ARCHIBALD, PH.D.<br><i>Instructor in Mathematics</i>   | 9 Charles Field Street |
| ARTHUR UPHAM POPE, A.M.<br><i>Instructor in Philosophy</i>  | 106 Governor Street    |

†On leave of absence during the academic year 1909-10.

# OFFICERS OF ADMINISTRATION AND INSTRUCTION 17

|   |                         |
|---|-------------------------|
| ARTHUR WARE LOCKE, A.B.<br><i>Instructor in Music</i>                       | 75 Medway Street        |
| ALLAN BENTON MORTON, A.M.<br><i>Instructor in Mathematics</i>               | 86 Wood St.             |
| GILBERT CHINARD, B. ès L., L. ès L.<br><i>Instructor in French</i>          | 64 College Street       |
| ROBERT CAMPBELL WEED, PH.B.<br><i>Instructor in Chemistry</i>               | 65 Charles Field Street |
| MOSES LEVEROCK CROSSLEY, PH.B.<br><i>Instructor in Physics</i>              | 250 Doyle Avenue        |
| ALBERT EDDY LEACH, Sc.B.<br><i>Instructor in Civil Engineering</i>          | 181 Angell Street       |
| ROBERT FRANKLIN FIELD, A.M.<br><i>Assistant in Physics</i>                  | 25 Wilson Street        |
| DAVID WILKINSON SMITH, A.M.<br><i>Assistant in Greek</i>                    | 1 University Hall       |
| BENJAMIN LOUIS ANTOINE HÉNIN, B. ès L., LL.B.<br><i>Assistant in French</i> | 21 University Hall      |
| NELSON CLARK DALE, Sc.B.<br><i>Assistant in Geology</i>                     | 9 Charles Field Street  |
| LAURENCE RICH GROSE, A.M.<br><i>Assistant in English</i>                    | 41 Waterman Street      |
| CAROL ARONOVICI, S.A.B., LITT.B.<br><i>Assistant in Social Science</i>      | 31 Chestnut Street      |
| ROBERT FOSTER CHAMBERS, PH.B.<br><i>Assistant in Chemistry</i>              | 89 Courtland Street     |
| HOVHANNÉS ZOVIGIAN, PH.B.<br><i>Assistant in Chemistry</i>                  | 91 John St., Pawtucket  |
| GEORGE THOMAS HUXFORD, Sc.B.<br><i>Assistant in Mechanical Engineering</i>  | 26 Hope College         |
| RALPH PHILIP BOAS, A.B.<br><i>Assistant in English</i>                      | University 58           |
| JAMES COOK MARTIN, PH.B.<br><i>Assistant in Geology</i>                     | 68 Providence Street    |
| ERNEST RUSSELL HAGER, A.B.<br><i>Assistant in Education</i>                 | 100 Park Avenue, Auburn |
| JAY PERKINS, M.D.<br><i>Demonstrator in Anatomy</i>                         | 106 Waterman Street     |

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| JOHN BURNHAM FERGUSON, A.B., M.D.                                | 369 Broad Street    |
| <i>Demonstrator in Anatomy</i>                                   |                     |
| THERON CLARK, A.B.   | 152 Congdon Street  |
| <i>Assistant Registrar</i>                                       |                     |
| EMMA BRADFORD STANTON, A.M.                                      | Bristol             |
| <i>Registrar of the Women's College</i>                          |                     |
| HENRY DEWEES CADY  | Warren              |
| <i>Instructor in Shop Practice</i>                               |                     |
| EDWIN AYLSWORTH BURLINGAME                                       | 359 Brook Street    |
| <i>Superintendent of Grounds and Buildings</i>                   |                     |
| GEORGE ARNOLD MATTESON, M.D.                                     | 112 Prospect Street |
| <i>Physician to the University</i>                               |                     |
| EARL NORTHUP MANCHESTER, A.B.                                    | 66 Meeting Street   |
| <i>Reference Librarian; Assistant Keeper of Graduate Records</i> |                     |
| LLOYD WILLIAM JOSSELYN   | 27 Benefit Street   |
| <i>Assistant Librarian</i>                                       |                     |
| LAURA RUSSELL GIBBS, L.S.B.                                      | 47 George Street    |
| <i>Cataloguer</i>  |                     |
| REBECCA PHILLIPS STEERE  | 84 Waterman Street  |
| <i>Cataloguer in the John Carter Brown Library</i>               |                     |
| JOHN EDWARDS   | 210 Doyle Avenue    |
| <i>Assistant in the Ladd Observatory</i>                         |                     |

## STANDING COMMITTEES OF THE FACULTY

### ON REGISTRATION AND ATTENDANCE

Dean MEIKLEJOHN, Professors UPTON, RANDALL, DELABARRE, and FOWLER,  
Dean KING, Mr. GUILD.

### ON THE CURRICULUM

Professors POLAND, DAVIS, GARDNER, RANDALL, BRONSON, EVERETT, ALLIN-  
SON, HILL, MEAD, MEIKLEJOHN, MACDONALD, and VON KLENZE, Mr. GUILD.

### ON STUDENT ORGANIZATIONS

Professors DELABARRE, LANGDON, HILL, POTTER, MEIKLEJOHN, and MARVEL.

### ON STUDENT ADVISERS

Professors ALLINSON, GREENE, CROSBY, and KIRK.

## OFFICE HOURS

THE PRESIDENT. 7 Administration Building : 11.30 a.m. to 12.30 p.m., *except Mondays and Saturdays.*

THE DEAN OF THE UNIVERSITY. 5 Administration Building : 1.30 to 2.30 p.m., *except Saturdays.*

THE REGISTRAR, AND SECRETARY OF THE FACULTY. 4 Administration Building : 8.30 a.m. to 4 p.m.; *Saturdays to 1 p.m. Consultation Hours, 12 m. to 1 p.m., 3 to 4 p.m.*

THE ASSISTANT REGISTRAR. 4 Administration Building : 8.30 a.m. to 12 m., 1.30 to 4 p.m.; *Saturdays to 1 p.m.*

THE DEAN OF THE GRADUATE DEPARTMENT. 5 or 6 Wilson Hall : 12.20 to 1.20 and 3.20 to 4.20 p.m.

THE LIBRARIAN OF THE UNIVERSITY. The University Library : 9 to 10 a.m., 3 to 4 p.m.

THE LIBRARIAN OF THE JOHN CARTER BROWN LIBRARY. The Library : 9 a.m. to 5 p.m.

THE SECRETARY OF THE TEACHERS' BUREAU. 10 Administration Building : 4.20 p.m. *Mondays and Fridays*; 5.20 p.m. *Wednesdays*; 12.20 p.m. *Saturdays.*

THE SUPERINTENDENT OF GROUNDS AND BUILDINGS. 1 University Hall : 8 to 9 a.m.; 1.30 to 2.30 p.m.

THE KEEPER OF GRADUATE RECORDS. The University Library : 9 a.m. to 12 m., 1.30 to 5.30 p.m.; *Saturdays 9 a.m. to 12 m.*

THE DEAN OF THE WOMEN'S COLLEGE. Pembroke Hall, Meeting Street : 10.15 to 11.25 a.m., *except Saturdays.*

THE REGISTRAR OF THE WOMEN'S COLLEGE. Pembroke Hall, Meeting Street : 9 a.m. to 1 p.m., 2.30 to 4 p.m.; *Saturdays 9.15 a.m. to 1 p.m.*

# HISTORY OF BROWN UNIVERSITY

A GENERATION before the establishment of any institution of higher education in Rhode Island, Dean (afterwards Bishop) Berkeley, in pursuance of his cherished design of planting a Christian college in America, chose this colony as his place of residence. Here, at Newport or in its vicinity, he lived for nearly three years, from 1729 to 1731. At the close of this period it became evident that the money which had been voted for the project by the House of Commons would not be paid, and Berkeley reluctantly abandoned his project and returned to England. Though he had no direct relation to the college afterwards established, yet he inspired an interest in higher education among the colonists and thus made easier the success of the later undertaking.

In 1762 the Philadelphia Baptist Association, in view of the disabilities attaching to Baptist students in most of the existing American colleges, welcomed a proposal offered by the Reverend Morgan Edwards, a clergyman of Welsh birth, at that time pastor of the First Baptist Church in Philadelphia, to found in Rhode Island a college that should be under the control of their own denomination. James Manning, who had just been graduated from Princeton, was appointed by the Association as its agent to establish "a seminary of polite literature subject to the government of the Baptists."

In deciding upon the location of the new college, a canvass of the colonies had shown the advantages to be clearly on the side of Rhode Island, which recognized absolute religious liberty, and was, moreover, a Baptist colony in origin and popular attachment. There was no rival institution in the field; and the important cities of Newport and Providence, the former being the second city in New England, furnished an encouraging prospect of future support. Accordingly, in 1764, the friends of the movement obtained from the General Assembly the charter which still remains in force. Although, under the rules of the charter, the President and a majority of both the Fellows and the Trustees must be Baptists, the three important positions of Chancellor, Secretary, and Treasurer are without denominational restriction, and all religious tests and sectarian instruction are strictly prohibited. The institution was known during the first forty years of its existence as Rhode Island College.



As the College was at the beginning without funds, and only a scanty return could be expected from students' fees, it was necessary that the president should support himself and his family by some other means. The founding of a Baptist church in Warren and the call of Mr. Manning to its pastorate offered a solution of the difficulty; and hither Mr. Manning brought his family in the spring of 1764. His first act towards the establishment of a college was the opening of a Latin school. This preparatory school was later removed with the College to Providence, where it flourished for a hundred and forty years under the name of the University Grammar School. At the second meeting of the Corporation, September 4, 1765, Mr. Manning was formally appointed "president of the College, professor of languages and other branches of learning;" the first student had been matriculated the day before. In the following year David Howell was appointed tutor, but no other addition was made to the Faculty until 1774. In 1769 the first class (of seven members) was graduated at Warren. This town had not generally been regarded as the permanent seat of the College, and the necessity which now arose of erecting a college building compelled a final choice of location. After a spirited contest for the honor among the leading towns of the colony, the choice fell upon Providence. Here in 1770 the first college building, the present University Hall, modeled after Nassau Hall at Princeton, and a house for the president were both built on the college grounds, the cost being covered by subscriptions, chiefly from residents of Providence.

In 1771 President Manning was called to the pastorate of the First Baptist Church in Providence; he served the church in this capacity, in addition to his college duties, from that date until the close of his life. In December, 1776, the work of the College was interrupted by the Revolutionary War, and it was not resumed until the fall of 1782, University Hall being used meanwhile as a barrack and hospital for the combined American and French troops. Upon the reorganization of the College important additions were made to the library and the philosophical apparatus. The first college funds, amounting to \$4500, were collected in England and Ireland by the Reverend Morgan Edwards in 1767-8. In the next two years the Reverend Hezekiah Smith obtained subscriptions amounting to \$2500 in South Carolina and Georgia. The former contribution was made a permanent fund; the latter was expended in the construc-

tion of the college buildings. Further gifts were received for a time from the Philadelphia, Charleston, and Warren Baptist Associations, but they appear to have ceased with the outbreak of the Revolutionary War. In 1791, after twenty-nine years of service as founder and director of Rhode Island College, President Manning died. The College had become firmly established, with a graduate roll of one hundred and forty-nine; the last graduating class, that of 1790, had numbered twenty-two. At the time of his death the Faculty consisted of the president, four professors, and two tutors. The discipline during this period had been strict and paternal, the officers of instruction living under the same roof with the students and making frequent visits of inspection to their rooms. President Manning at first taught all the branches studied, but was designated professor of languages, afterwards of moral philosophy. David Howell, his assistant, taught mathematics and natural philosophy, and is said to have taught also French, German, and Hebrew. He was appointed professor of natural philosophy in 1769, and of law in 1790, but never taught the latter subject. Benjamin Waterhouse was appointed professor of natural history in 1784; and Benjamin West, professor of mathematics and astronomy in 1786.

The successor of President Manning was the Reverend Jonathan Maxcy, a graduate in the class of 1787, who had been professor of divinity 1791-2. He served from 1792 until 1802, when he resigned his office to accept the presidency of Union College. During the last year of his administration at Rhode Island College a class numbering twenty-eight was graduated.

The third president of the College, the Reverend Asa Messer, a graduate in the class of 1790, who had served as professor of learned languages 1796-9, and of mathematics and natural philosophy 1799-1802, directed the affairs of the institution from 1802 until his resignation in 1826. During his presidency of twenty-four years the College was greatly expanded. A class numbering forty-eight was graduated in 1825, the Faculty in that year consisting of the president, nine professors, and two tutors. A medical school was established, which existed from 1811 until 1828 and sent out eighty-seven graduates. The special professorships created for the medical school were: materia medica and botany, 1811; anatomy and surgery, 1811; chemistry, 1811; theory and practice of medicine, 1815. A professor of moral philosophy and metaphysics was appointed in 1811; one of oratory and belles-lettres in 1815; and one of the Latin and

Greek languages and literature in 1825. In 1826 the permanent funds of the University amounted to \$31,300.

In 1792 Nicholas Brown, a graduate in the class of 1786, gave \$500 with which to purchase law books for the Library. In 1804 he endowed a professorship of oratory and belles-lettres. In the same year the name of the institution was changed in his honor to Brown University. In 1822 he built Hope College at his own expense, in 1834 Manning Hall, and in 1840 the second president's house. The last-named building has been used since 1899 as a refectory. The total value of Mr. Brown's various gifts to the University was not less than \$160,000. Mr. Brown also served the University in a most efficient way as treasurer 1796-1825. He was trustee 1791-1825, and fellow from 1825 until his death in 1841.

The fourth president, the Reverend Francis Wayland, entered upon his official duties in 1827. He at once raised the standard of scholarship and gradually increased the scope of the instruction. He finally accomplished an entire reorganization of the University on the basis of the elective principle. In accordance with this "New System," the bachelor's degree was given for a three years' course and the master's degree for a four years' course. Graduate study and special study were both encouraged; and the sciences, in accordance with the spirit of the charter, were made prominent in the curriculum. This system was not put into operation until 1850, and was fully in force only until his retirement five years later. The increase in the scope of the curriculum during President Wayland's administration is clearly shown in the following list of subjects to which professors or instructors were assigned at the dates annexed: chemistry, physiology, and geology, 1834; moral and intellectual philosophy, 1834; belles-lettres, 1835; rhetoric, 1837; Hebrew literature, 1838; modern languages and literature, 1843; Greek, 1843; Latin, 1844; French, 1844; history and political economy, 1850; natural philosophy and civil engineering, 1850; chemistry applied to the arts, 1850; rhetoric and English literature, 1851; didactics (*i. e.*, pedagogy), 1851; analytical chemistry, 1854. The influence of President Wayland was felt, not in an increase of the number of students, but in an elevation of the intellectual and moral tone of the institution. Discipline, which had grown lax, was strictly enforced. During his administration the college grounds were laid out, and the Library was placed on a sound financial basis. Rhode Island Hall was erected in 1840 from sub-

scriptions by Rhode Island men and women. The permanent funds were increased to \$200,000. Dr. Wayland resigned the presidency in 1855, having won for the University, by his fame as a writer, thinker, and educational reformer, an enviable distinction both at home and abroad.

The fifth president of the University, the Reverend Barnas Sears, a graduate in the class of 1825, held office from 1855 until 1867, when he resigned the presidency to become general agent of the Peabody Education Fund. During his incumbency the only new subject added to the curriculum was physical geography, in 1864. Although the term of President Sears covered the financial crisis of 1857 and the Civil War, a notable increase was made both in the funds and in the number of students. A system of scholarships was established, and over \$220,000 was collected in subscriptions. The Chemical Laboratory was built in 1862. In the last class that entered under President Sears seventy-three students were enrolled. Three hundred graduates and students of Brown entered the Union service, 1861-5. Of these twenty-one laid down their lives.

The Reverend Alexis Caswell, a graduate in the class of 1822, was the sixth president of the University, his term covering the years 1868-72. Under his administration the department of physics was organized, and the endowment was increased from \$365,000 to a sum exceeding \$550,000.

Upon the resignation of Dr. Caswell, the Reverend Ezekiel Gilman Robinson, a graduate in the class of 1838, became president. Dr. Robinson's presidency extended over the seventeen years 1872-1889. This period was marked by a further increase in the attendance, the class of 1889 being graduated with a membership of fifty-six. The following subjects were added to the curriculum, or were emphasized by the appointment of separate instructors: special branches of agriculture, 1872; zoölogy and agriculture, 1874; physiology, 1874; botany, 1877; zoölogy and geology, 1878; elocution, 1880; astronomy, 1884; logic, 1886; history, 1888; political economy, 1888. The funds were increased to \$980,000, and important additions were made to the buildings. Rhode Island Hall was enlarged in 1875. The Library, the gift of John Carter Brown, of the class of 1816, was built in 1878, and Slater Hall, the gift of Horatio Nelson Slater, in 1879. Sayles Hall, the gift of William Francis Sayles, a memorial to his son, William Clark Sayles, a member of the class of 1878, was built in 1881. University Hall, which had been renovated



in 1850, was again renovated in 1883. Dr. Robinson recognized the fact that a great opportunity for a university existed at Brown, and, though he was not able fully to realize his purposes, he prepared the way for the great enlargement of the institution under his successor. Besides the addition of various courses, a beginning was made in systematic graduate instruction. Dr. Robinson resigned the presidency in 1889.

The eighth president of the University was the Reverend Elisha Benjamin Andrews, a graduate in the class of 1870. With his accession in 1889 the modern life of the University properly begins. In the year preceding his presidency three graduate students were enrolled; in the last year of his term of service the graduate students numbered 101, the total number of students for the same years being, respectively, 268 and 860. The officers of instruction for the corresponding years increased in number from twenty-two to seventy-three. All the old departments were expanded, and the number of departments was increased from sixteen in 1889-90 to twenty-five in 1897-8. The department of philosophy was enlarged by the addition of psychology and pedagogy. American and European history were assigned to separate professors, and political economy was made a department. The departments of Greek literature and history, Roman literature and history, English literature and language, Germanic languages and literatures, and Romance languages and literatures were reorganized and extended. Rhetoric and oratory were made an independent department. The departments of mathematics, mechanical engineering, astronomy, physics (including electrical engineering), chemistry, zoölogy, geology, and anthropology, and botany were extended in scope and thoroughness. New departments were formed for the subjects of social and political science including law, fine arts including the history of art and music, Indo-European philology, Biblical literature and history including the Semitic languages and New Testament Greek, mechanical drawing, civil engineering, comparative anatomy, military science and tactics, and bibliography.

The museum of fine arts was founded in 1889, and that of anthropology in 1891. The funds were increased to \$1,125,685, and important additions were made to the buildings and grounds. In 1891 Hope College was renovated; Wilson Hall, the bequest of George Francis Wilson, was built; the Ladd Observatory was presented to the University by the Honorable Herbert W. Ladd; and the Lyman

Gymnasium, named in honor of its principal donor, was erected. Maxcy Hall was built in 1895. Three buildings, known as the Howell, Messer, and Brown Street houses were also secured for dormitory purposes. The old playground of the University, now known as Lincoln Field, was graded and fitted up for ball-games and other athletic purposes in 1889. In 1898 a new athletic field was laid out on Camp Street, a mile and a half from the University. In 1891 the Grand Army of the Republic Fellowship Fund of \$10,000 was given to the University by the Rhode Island Department of that organization.

The Women's College was founded in October, 1891. At first only the privileges of University examinations and certificates of proficiency were granted. In June, 1892, all the College and University degrees and the graduate courses were opened to women. In November, 1897, the institution was accepted by the Corporation and officially designated the Women's College in Brown University. The immediate charge of this department, as of all others in the University, is in the hands of the Corporation. All instruction is given by members of the University Faculty. Pembroke Hall, which was built by the Rhode Island Society for the Collegiate Education of Women, was formally transferred to the University in October, 1897, and was accepted as the recitation hall of the Women's College.

In 1898 Dr. Andrews resigned the presidency to become Superintendent of Schools in Chicago. Dr. Benjamin Franklin Clarke, the senior member of the Faculty, who had served as president *pro tempore* during the absence of Dr. Andrews in Europe in 1896-7, was appointed president *ad interim*, and served during the academic year 1898-9.

The ninth president of the University is the Reverend William Herbert Perry Faunce, a graduate in the class of 1880, who entered upon his official duties on Commencement Day, 1899. At Commencement, 1900, announcement was made of an addition of over a million dollars to the endowment of the University. To this was added a year later a second million, including the endowment of the John Carter Brown Library. In 1900 the Slater Memorial Homestead was presented by Mrs. Horatio N. Slater, as a home for the students of the Women's College. In 1901 the president's house was erected at the corner of Hope and Manning streets. In 1902 the Van Wickle Administration Building was completed, this structure as well as the gates opposite being the bequest of Augustus Stout Van Wickle, of



the class of 1876. In 1904 Rockefeller Hall, the gift of John D. Rockefeller, was opened for the use of the Brown Union, a social organization of students and alumni which was formed in that year. In the same year the Engineering Building, on Lincoln Field, Caswell Hall, a dormitory fronting on Thayer Street, and the Colgate Hoyt swimming-pool, the gift of Colgate Hoyt, were erected, and a great organ, the gift of Lucian Sharpe, of the class of 1893, was placed in Sayles Hall. In 1904 the John Nicholas Brown Gate was built as a memorial to the late John Nicholas Brown by his widow. In the same year the Carrie Tower, a clock tower, erected by Paul Bajnotti, of Turin, to the memory of his wife, Carrie Mathilde Brown, was presented to the University. Since 1901 an iron fence with brick and stone posts has been built around the front and the middle campus, each section having been contributed by or in memory of some class. The classes of 1872, 1884, and 1887 have contributed gates. In the summer of 1905 the exterior of University Hall was restored to its original appearance at the expense of Marsden J. Perry. In 1906 the Gymnasium of the Women's College was erected by Mr. Frank A. Sayles as a memorial to his sister, Martha Fessenden Sayles. In 1907 the Marston Field House, the gift of Edgar L. Marston, Esq., of New York, was erected on Andrews Field. In the same year Mr. Stephen O. Metcalf gave a lot of land adjoining the Women's College and had the grounds laid out at his expense. In April, 1909, the funds of the University, exclusive of those pertaining to the John Carter Brown Library, amounted to \$3,416,744.41.

The Library of the University dates from 1767, when the Reverend Morgan Edwards collected books for it in England. The collection was at first kept in University Hall. It was removed to Manning Hall upon the completion of that building in 1835, and in 1878 was transferred to the present building. In 1842 it contained ten thousand volumes; in 1878, forty-eight thousand. The present number, including the books in the twenty department libraries, but not including the John Carter Brown Library, is over one hundred and sixty thousand. The Providence Library Company, now the Athenaeum, the Library of the Rhode Island Historical Society, the State Law Library, and the State Library have been most valuable adjuncts to the University Library; and, since the opening of the Providence Public Library in 1878, members of the University have made constant use of its choice and readily available resources. The Library Fund, established under President Wayland, has been supplemented

by ten special funds, devoted to the departments of European history, United States history, mediaeval and church history, botany, the arts of design, biology, the classical languages and literatures, English literature, and American poetry. Gifts of one thousand dollars each have been made to the Library in recent years by the classes of 1872, 1884, 1885, 1886, 1887, and 1888. In 1884, by the will of the Honorable Henry B. Anthony, the Library came into possession of the Harris Collection of American Poetry numbering five thousand volumes, since increased to more than seven thousand. In 1901 there was presented to the University the John Carter Brown Library, the most complete collection in the world on the history of the two Americas down to the end of the eighteenth century; the sum of \$500,000 was also given as an endowment and the sum of \$150,000 for the erection of a building. The building was dedicated in May, 1904. In October, 1903, the University received by the gift of Marsden J. Perry the Sidney S. Rider Collection of manuscripts, books, and other material, forming a library of the first importance to students of the history of Rhode Island. In April, 1909, the corner-stone of the John Hay Library was laid.

At the close of the one hundred and forty-first Commencement of the University, in 1909, there were enrolled the names of 6,847 graduates,—6,352 men and 495 women. Of this number 6,064 had received the College or University first degree; 109, exclusive of the foregoing, had received advanced degrees; 69, not previously reckoned, had received the degree of Doctor of Medicine; 619 others had received honorary degrees. Of the entire number, 3,823, or fifty-five per cent, were living.

# THE CHARTER OF BROWN UNIVERSITY ‡

**B**Y the Honorable the Governor and Company of the English Colony of Rhode Island and Providence Plantations in New England in America in General Assembly convened at East Greenwich within and for the Colony aforesaid on the last Monday in February One Thousand Seven Hundred and Sixty-four.

*Date of the  
Charter*

*Whereas* Institutions for liberal Education are highly beneficial to Society by forming the rising Generation to Virtue, Knowledge, and useful Literature; and thus

*Preamble*

preserving in the Community a Succession of Men duly qualified for discharging the Offices of Life with Usefulness and Reputation; they have therefore justly merited and received the the Attention and Encouragement of every wise and well regulated State: And whereas a Public School or Seminary, erected for that Purpose within this Colony to which the Youth may freely resort for Education in the vernacular and learned Languages, and in the liberal Arts and Sciences would be for the general Advantage and Honor of the Government: And whereas Daniel Jenckes Esq; Nicholas Tillinghast Esq; Nicholas Gardiner Esq; Col. Josias Lyndon, Col. Elisha Reynolds, Peleg Thurston Esq; Simon Pease Esq; John Tillinghast Esq; George Hazard Esq; Col.

*Petition of the  
Undertakers*

Job Bennet, Nicholas Easton Esq; Arthur Fenner Esq; Mr. Ezekiel Gardiner, Mr. John Waterman, Mr. James Barker Junr, Mr. John Holmes, Solomon Drown Esq; Mr. Samuel Winsor, Mr. Joseph Sheldon, Charles Rhodes Esq; Mr. Nicholas Brown, Col, Barzillai Richmond, Mr. John Brown, Mr. Gideon Hoxsey, Mr. Thomas Eyres, Mr. Thomas Potter, Jun. Mr. Peleg Barker, Mr. Edward Thurston, Mr. William Redwood, Joseph Clarke Esq; Mr. John G Wanton, and Mr. Thomas Robinson with many other Persons, appear as Undertakers in the valuable Design: And thereupon a Petition hath been preferred to this Assembly, praying that full Liberty and Power may be granted unto such of them, with others, as are hereafter

‡ *With the exception of the marginal analysis and the notes, this reprint is an exact copy of the original charter engrossed on parchment, preserved in the archives of the University.*

mentioned, to found, endow, order, and govern a College or University, within this Colony; and that, for the more effectual Execution of this Design, they may be incorporated into one Body Politic, to be known in the Law, with the Powers, Privileges, and Franchises, necessary for the Purpose aforesaid.

*Now therefore know ye*, That being willing to encourage

*Original Corporators*

and patronize such an honorable and useful Institution, we the said Governor and Company, in General Assembly convened, Do, for ourselves and our Successors,

in and by Virtue of the Power and Authority, within the Jurisdiction of this Colony, to us by the Royal Charter granted, and committed, Enact, Grant, Constitute, Ordain, and Declare, And it is hereby Enacted, Granted, Constituted, Ordained and Declared, That the Hon. Stephen Hopkins Esq; the Hon. Joseph Wanton Jun. Esq; the Hon. Samuel Ward Esq; the Hon. William Ellery Esq; John Tillinghast Esq; Simon Pease Esq; James Honyman Esq; Nicholas Easton Esq; Nicholas Tillinghast Esq; Darius Sessions Esq; Joseph Harris Esq; Francis Willet Esq; William Logan Esq; Daniel Jenckes Esq; George Hazard Esq; Nicholas Brown Esq; Jeremiah Niles Esq; Joshua Babcock Esq; Mr. John G Wanton, the Rev. Edward Upham, the Rev. Jeremiah Condry, the Rev. Marmaduke Brown, the Rev. Gardner Thurston, the Rev. Ezra Stiles, the Rev. John Greaves, the Rev. John Maxson, the Rev. Samuel Winsor, the Rev. John Gano, the Rev. Morgan Edwards, the Rev. Isaac Eaton, the Rev. Samuel Stillman, the Rev. Samuel Jones, the Rev. James Manning, the Rev. Russel Mason, Col. Elisha Reynolds, Col. Josias Lyndon, Col. Job Bennet, Mr. Ephraim Bowen, Joshua Clarke Esq; Capt. Jonathan Slade, John Taylor Esq; Mr. Robert Shettell Jones, Azariah Dunham Esq; Mr. Edward Thurston Junr. Mr. Thomas Eyres, Mr. Thomas Haszard, and Mr. Peleg Barker, or such, or so many of them as shall, within Twelve Months from the Date hereof, accept of this Trust, and qualify themselves as herein after directed, and

*Name*

their Successors, shall be forever hereafter One Body

Corporate and Politic, in Fact and Name, to be known in Law by the Name of Trustees and Fellows of the College or University, in the English Colony of Rhode Island, and Providence Plantations in New England, in America; the Trustees and Fellows at any Time hereafter, giving such more particular Name to the Col-



lege, in Honor of the greatest and most distinguished Benefactor, ‡ or otherwise, as they shall think proper: Which Name, so given, shall, in all Acts, Instruments and Doings of said Body Politic, be superadded to their Corporate Name aforesaid, and become a Part of their legal Appellation by which it shall be forever known and distinguished: And that, by the same Name, they and their Successors, chosen by themselves as here-  
*Powers of Corporation*  
 after prescribed, shall, and may, have perpetual Succession; and shall, and may be Persons able and capable, in the Law, to sue and be sued, to plead and to be impleaded, to answer and to be answered unto, to defend and to be defended against, in all and singular Suits, Causes, Matters, Actions and Doings, of what Kind soever: And also to have, take, possess, purchase, acquire, or otherwise receive and hold Lands, Tenements, Hereditaments, Goods, Chattles, or other Estates; of all which they may, and shall stand and be seized, notwithstanding any Misnomer of the College, or the Corporation thereof; and by whatever Name, or however imperfectly the same shall be described in Gift, Bequests, and Assignments, provided the true Intent of the Assignor or Benefactor be evident:

‡ *The following is an extract from the records of a meeting of the Corporation held September 6, 1804:*

**A** LETTER from Mr. Nicholas Brown, dated on this present day, having been read in the following words, to—wit:

*Gentlemen:*

*PROVIDENCE, September 6, 1804.*

**I**T is known to you that I have long had an attachment to this institution as the place where my deceased brother Moses and myself received our education. This attachment derives additional strength from the recollection that my late honored Father was among the earliest, and most zealous patrons of the College; and is confirmed by my regard to the cause of Literature in general. Under these impressions I hereby make a donation of Five Thousand Dollars to Rhode Island College, to remain in perpetuity as a fund for the establishment of a Professorship of Oratory and Belles Lettres. The money will be paid next Commencement and is to be vested in such funds as the Corporation shall direct for its augmentation to a sufficiency in your judgment to produce a competent annual Salary for the within mentioned Professorship.

I am very respectfully, Gentlemen, with my best wishes for the prosperity of the College, your obedient friend,

**NICHOLAS BROWN.**

*Honored Corporation of Rhode Island College.*

**I**T is therefore voted: That the thanks of this Corporation be presented to Mr. Nicholas Brown for the aforesaid Donation, and it is further Voted, That this College be called and known in all future time by the Name of Brown University in Providence in the State of Rhode Island and Providence Plantations.

Also the same to grant, demise, aliene, lease, use, manage and improve according to the Tenor of the Donations, and to the Purposes,  
*To found,* Trusts, and Uses to which they shall be seized thereof.  
 And full Liberty, Power, and Authority is hereby granted unto the said Trustees and Fellows, and their Successors, to found a College, or University, within this Colony, for promoting the liberal Arts, and universal Literature: And with  
*endow* the Monies, Estates, and Revenues, of which they shall from Time to Time become legally seized as aforesaid, to endow the same: And erect the necessary Buildings and Edifices thereof  
*and govern* on such Place within this Colony as they shall think  
*the College* convenient: And generally to regulate, order, and govern the same, appoint officers, and make Laws, as herein after prescribed; and hold, use, and enjoy all the Liberties, Privileges, Exemptions, Dignities and Immunities, enjoyed by any College, or University, whatever.

*And furthermore,* That the said Trustees and Fellows, and  
*Seal* their Successors, shall, and may, forever hereafter have a Publick Seal to use for all Causes, Matters, and Affairs, whatever, of them and their Successors, and the same Seal to alter, break, and make anew, from Time to Time, at their Will and Pleasure; which Seal shall always be deposited with the President, or Senior Fellow.

*And furthermore,* By the Authority aforesaid, It is hereby  
*Corporation* Enacted, Ordained and Declared, That it is now,  
*with two* and at all Times hereafter shall continue to be the  
*branches* unalterable Constitution of this College, or University, that the Corporation thereof shall consist of Two Branches, to wit: That of the Trustees, and that of the Fellowship, with distinct, separate, and respective Powers: And that the Number of the Trustees shall, and may be Thirty-six; of which  
*Number and* Twenty-two shall forever be elected of the Denomi-  
*denomination* nation called Baptists, or Antipædobaptists; Five  
*of the Trustees* shall forever be elected of the Denomination called Friends, or Quakers; Four shall forever be elected of the Denomination called Congregationalists, and Five shall forever be elected of the Denomination called Episcopalians: And that the Succession in this Branch shall be forever chosen and filled up from the respective Denominations in this Proportion, and according to these Num-



bers; which are hereby fixed, and shall remain to Perpetuity immutably the same. And that the said Stephen Hopkins, Joseph Wanton, Samuel Ward, William Ellery, John Tillinghast, Simon Pease, James Honyman, Nicholas Easton, Nicholas Tillinghast, Darius Sessions, Joseph Harris, Francis Willett, Daniel Jenckes, George Hazard, Nicholas Brown, Jeremiah Niles, John G. Wanton, Joshua Clarke, Gardner Thurston, John Greaves, John Maxson, John Gano, Samuel Winsor, Isaac Eaton, Samuel Stillman, Russel Mason, Elisha Reynolds, Josias Lyndon, Job Bennet, Ephraim Bowen, John Taylor, Jonathan Slade, Robert Shettell Jones, Azariah Dunham, Edward Thurston Junr, and Peleg Barker, or such, or so many of them as shall qualify themselves as aforesaid, shall be, and they are hereby declared and established the first and present Trustees. And that the Number of the Fellows, inclusive of the President (who shall always be a Fellow) shall and may be Twelve; of which Eight shall be forever elected of the Denomination called Baptists, or Antipædobaptists; and the rest indifferently of any or all Denominations. And that the Rev. Edward Upham, the Rev. Jeremiah Condy, the Rev, Marmaduke Brown, the Rev. Morgan Edwards, the Rev, Ezra Stiles, the Rev, Samuel Jones, the Rev, James Manning, William Logan Esq; Joshua Babcock Esq; Mr Thomas Eyres, and Mr. Thomas Haszard, or such, or so many of them as shall qualify themselves as aforesaid, shall be, and they are hereby declared the first and present Fellows and Fellowship, to whom the President, when hereafter elected, (who shall forever be of the Denomination called Baptists or Antipædobaptists) shall be joined to compleat the Number.

*Original Trustees*

*Number and denomination of the Fellows*

*Original Fellows*

*And furthermore,* It is Declared and Ordained, That the Succession in both Branches, shall at all Times hereafter be filled up and supplied according to these Numbers, and this established and invariable Proportion from the respective Denominations by the separate Election of both Branches of this Corporation, which shall at all Times sit and act by separate and distinct Powers: And in general, in Order to the Validity and Consummation of all Acts, there shall be in the Exercise of their respective separate and distinct Powers, the joint Con-

*Relative numbers always the same*

*Concurrent action of Trustees and Fellows*

currence of the Trustees and Fellows, by their respective Majorities, except in adjudging and conferring the Academical Degrees, which shall forever belong, exclusively, to the Fellowship as a learned Faculty.

*And furthermore,* It is Constituted, That the Instruction and Government by the President and Fellows shall forever be, and rest in the President and Fellows or Fellowship.

*And furthermore,* It is Ordained, That there shall be a general Meeting of the Corporation on the First Wednesday in September annually, within the College Edifice, and until the same be built, at such Place as they shall appoint, to consult, advise and transact the Affairs of the College or University: At which or at any other Time, the Public Commencement may be held and celebrated. And that on any special Emergencies, the President, with any Two of the Fellows, or any Three of the Fellows, exclusive of the President, may convoke, and they are hereby empowered to convoke an Assembly of the Corporation on Twenty Days Notice: And that in all Meetings, the major Vote of those present of the Two Branches respectively, shall be deemed

*Special Meetings* their respective Majorities aforesaid: Provided, That not less than Twelve of the Trustees, and Five of the Fellows, be a Quorum of their respective Branches. That the President, or, in his Absence, the Senior Fellow present, shall always be Moderator of the Fellows: That the Corporation, at their annual Meetings, once in Three Years, or oftener in Case of Death or Removal, shall, and may choose a Chancellor of the University, and Treasurer, from among the Trustees, and a Secretary from among the Fellows: That the Nomination of the Chancellor shall be in the Trustees, whose Office shall be only to preside as a Moderator of the Trustees; and that in his Absence, the Trustees shall choose a Moderator for the Time being, by the Name of Vice-Chancellor: and at any of their Meetings, duly formed as aforesaid, shall and may be elected a Trustee or Fellow, or Trustees, or Fellows, in the Room of those nominated in this

*Quorum*

*Moderator of Fellows*

*Chancellor, Treasurer and Secretary chosen triennially*

*Vice-Chancellor*

Charter, who may refuse to accept, or in the Room of those who may die, resign, or be removed.

*Vacancies to be filled*

*And furthermore,* It is Enacted, Ordained and Declared,

That this Corporation, at any of their Meetings, regularly convened as aforesaid, shall and may elect and appoint the President and Professor of Languages, and the several Parts of Literature: And upon the

*Election of President and Professors*

Demise of him or them, or either of them, their Resignation or Removal from his or their Office, for Misdemeanor, Incapacity, or Unfaithfulness, (for which he or they are hereby declared removable by this Corporation) others to elect and appoint in their Room and Stead: And at such Meeting, upon the Nomination of the Fellows, to

*Appointment of other officers*

elect and appoint Tutors, Stewards, Butlers, and all such other Officers usually appointed in Colleges or Universities, as they shall find necessary, and think fit to appoint for the promoting liberal Education,

and the well ordering the Affairs of this College; and them or any of them, at their Discretion to remove, and substitute others in their Places. And in Case any President, Trustee or Fellow, shall see Cause to change his religious Denomination, the Corporation is hereby empowered to declare his or their Place or Places vacant, and may

*Vacancy by change of denomination*

proceed to fill up it or them accordingly, as before directed, otherwise each Trustee and Fellow, not an Officer of Instruction, shall continue in his Office during Life, or until Resignation. And further, in Case either of the religious Denominations should decline taking a Part in this Catholic, comprehensive and liberal Institution, the Trustees and Fellows shall and may compleat their Number, by electing from their respective Denominations, always preserving their respective Proportions herein before prescribed and determined: And all Elections shall be by Ballot or written Suffrage: And that a Quorum of Four Trustees & Three Fellows may transact any Business, excepting placing

*Elections by ballot*

the College Edifice, Election of Trustees, President, Fellows and Professors, that is to say, so that their Acts shall be of Force and Validity until the next annual Meeting, and no longer.

*Minor quorum*

*And* it is further Enacted and Ordained by the Authority aforesaid, That each Trustee and Fellow, as well those nominated in

this Charter, as all that shall hereafter be duly elected, shall, previous to their acting in a corporate Capacity, take the Engagement of Allegiance prescribed by the Law of this Colony, to his Majesty King George the Third, His Heirs and Rightful Successors to the Crown of Great-Britain, which Engagement shall be administered to the present Trustees and Fellows, by the Governor or Deputy-Governor of this Colony, and to those from Time to Time hereafter elected by their respective Moderators, who are hereby empowered to administer the same.†

*And* still more clearly to define and ascertain the respective Powers of the Two Branches, on making and enacting Laws, It is further Ordained and Declared, That the Fellowship shall have Power, and are hereby empowered from Time to Time, and at all Times hereafter, to make, enact and publish all such Laws, Statutes, Regulations and Ordinances, with Penalties, as to them shall seem meet, for the successful Instruction and Government of said College or University, not contrary to the Spirit, Extent, true Meaning and Intention of the Acts of the British Parliament, or the Laws of this Colony; and the same Laws, Statutes and Ordinances to repeal: Which Laws, and the Repeals thereof, shall be laid before the Trustees, and with their Approbation shall be of Force and Validity, but not otherwise. And further the Trustees and Fellows, at their Meetings afore-said, shall ascertain the Salaries of the respective Officers, and order the Monies assessed on the Students for Tuition, Fines and incidental Expenses, to be collected by the Steward, or such other Officer as they shall appoint to collect the same; and the same with their Revenues, and other College Estates in the Hands of the Treasurer, to appropriate in discharging Salaries and other College Debts: And the College Accounts shall be annually auditted and adjusted in the Meeting of the Corporation.

*And furthermore*, It is hereby Enacted and Declared, That

‡ *September 4, 1782, the Corporation by vote omitted from the engagement the acknowledgment of allegiance to the British crown. The form of engagement has since been modified at various times; the present form is as follows: You [person's name] being elected a member of this Corporation to the place of [Fellow or Trustee] do solemnly engage true allegiance to bear to the United States of America, and faithfully to discharge the duties of your present appointment: And this engagement you make and give on the peril of the penalty of perjury.*



into this liberal and catholic Institution shall never be admitted any religious Tests: But on the contrary, all the Members hereof shall forever enjoy full, free, absolute, and uninterrupted Liberty of Conscience: And that the Places of Professors, Tutors, and all other Officers, the President alone excepted, shall be free and open for all Denominations of Protestants: And that Youth of all religious Denominations shall and may be freely admitted to the equal Advantages, Emoluments and Honors of the College or University; and shall receive a like, fair, generous, and equal Treatment during their Residence therein, they conducting themselves peaceably, and conforming to the Laws and Statutes thereof. And that the public Teaching shall, in general, respect the Sciences; and that the Sectarian Differences of Opinions, shall not make any Part of the public and classical Instruction: Although all religious Controversies may be studied freely, examined and explained by the President, Professors, and Tutors, in a personal, separate and distinct Manner, to the Youth of any or each Denomination: And above all, a constant Regard be paid to, and effectual Care taken of, the Morals of the College.

*No religious tests*

*And furthermore*, for the Honor and Encouragement of Literature, we Constitute and Declare, the Fellowship aforesaid, a Learned Faculty; and do hereby give, grant unto, and invest them, and their Successors, with full Power and Authority, and they are hereby authorized and empowered, by their President, and in his Absence by the Senior Fellow, or One of the Fellows appointed by themselves at the anniversary Commencement, or at any other Times, and at all Times hereafter, to admit to, and confer any and all the learned Degrees, which can or ought to be given and conferred in any of the Colleges or Universities in America; or any such other Degrees of literary Honor as they shall devise, upon any and all such Candidates and Persons as the President and Fellows, or Fellowship, shall judge worthy of the Academical Honors: Which Power of conferring Degrees is hereby restricted to the learned Faculty, who shall or may issue Diplomas or Certificates of such Degrees, or confer Degrees by Diplomas, and authenticate them with the Public Seal of the Corporation, and the Hands of the President and Secretary, and of all the Professors, as Witnesses, and deliver them to the graduates as honorable and perpetual Testimonies.

*Fellows to confer degrees*

*Diplomas granted*

*And furthermore*, for the greater Encouragement of this Seminary of Learning, and that the same may be amply endowed  
*Exemption from taxation,* and enfranchised with the same Privileges, Dignities, and Immunities enjoyed by the American Colleges, and European Universities, We do Grant, Enact, Ordain, and Declare, And it is hereby Granted, Enacted, Ordained, and Declared, That the College Estate, the Estates, Persons, and Families of the President and Professors, for the Time being, lying and being within the Colony, with the Persons of the Tutors and Students, during their Residence at the College, shall be freed and exempted from all Taxes,‡ serving on Juries, and menial Services: And that the Persons aforesaid shall be exempted from

‡ *February 11, 1863, the Corporation voted as follows:*

**W**HEREAS the General Assembly of the State of Rhode Island at its present session on the 11th day of February 1863, has passed an Act the principal Section of which is in the following words viz: Section 1. The Corporation of Brown University in Providence consenting hereto that the estates, persons and families of the President and Professors for the time being, and their successors in office, shall not hereafter be freed and exempted from taxes for more than the amount of Ten Thousand dollars for each of such officers, his estates persons and family included.

And Whereas the Institution of Brown University, was established by its founders, was incorporated with liberal franchises by the State, has been maintained solely by private benefactions; all uniting for the same noble object, that is, to create and promote a seminary of religion and learning within this state whose beneficent influences should be diffused, at home and abroad through all time.

And Whereas those influences can, and will be most happily diffused and continued by a cordial good will and a harmonious coöperation between the General Assembly and citizens of this State and the University.

And Whereas the General Assembly by its Act aforesaid has expressed the opinion that the President and Professors should bear a portion of the burdens of taxation from which they are exempted by our charter, and has made the validity of its said Act to depend upon the consent of this Corporation thereto, thereby affirming and maintaining the inviolability of said Charter.

**T**HEREFORE, in order to manifest our cordial compliance with a reasonable wish of the General Assembly as expressed in said Act. It is hereby Voted and declared by the Corporation of Brown University, that being authorized by the President and Professors of said University, this Corporation does in behalf of the President and Professors and in behalf of this Corporation consent to the said Act passed by the General Assembly of the State of Rhode Island at its present session, as aforesaid—and the Secretary of this Corporation is hereby instructed to file a copy of this vote under the seal of the Corporation and certified by himself in the Office of the Secretary of State, as proof of the consent of this Corporation thereto.

The above Report was accepted and the Vote was adopted unanimously.



bearing Arms, Impresses and Military Services, except in case of an Invasion.

*And furthermore*, for establishing the Perpetuity of this Corporation, and in Case that at any Time hereafter, through Oversight, or otherwise through Misapprehensions, and mistaken Constructions of the Powers, Liberties and Franchises herein contained, any Laws should be enacted, or any Matters done and transacted by this Corporation contrary to the Tenor of this Charter, It is hereby Enacted, Ordained and Declared, That all such Laws, Acts, and Doings, shall be in themselves null and void: Yet, Nevertheless, the same shall not in any Courts of Law, or by the General Assembly, be deemed, taken, interpreted, or adjudged into an Avoidance, Defeazance or Forfeiture of this Charter: But that the same shall be, and remain unhurt, inviolate, and entire unto the said Corporation, in perpetual Succession: Which Corporation may, at all Times, and forever hereafter proceed and continue to act: And all their Acts, conformable to the Powers, Tenor, true Intent and Meaning of the Charter, shall be, and remain in full Force and Validity, the Nullity and Avoidance of any such illegal Acts to the contrary in any wise notwithstanding.

*And lastly*, We the Governor and Company aforesaid, Do, for ourselves and our Successors, forever hereby Enact, Grant and Confirm unto the said Trustees and Fellows, and to their Successors, That this Charter of Incorporation, and every Part thereof, shall be good and available in all Things in the Law, according to our true Intent and Meaning: And shall be construed, reputed, and adjudged in all Cases most favorably on the Behalf and for the best Benefit and Behoof of the said Trustees and Fellows, and their Successors, so as most effectually to answer the valuable Ends of this useful Institution.

*In* full Testimony of which Grant, and of all the Articles and Matters therein contained, the said Governor and Company do hereby order, That this Act shall be signed by the Governor and Secretary, and sealed with the Public Seal of this Colony, and registered in the Colony's Records: And that the same, or an Exemplification thereof, shall be

*Perpetuity of  
the Corpora-  
tion*

*Charter for the  
benefit of the  
Corporation  
and the Col-  
lege*

*Signed and  
sealed*

a sufficient Warrant to the said Corporation to hold, use and exercise all the Powers, Franchises, and Immunities herein contained.

*In Conformity to the above Act, SAMUEL WARD, ESQ; Governor, Captain-General, and Commander in Chief, of and over the Colony aforesaid doth hereunto subscribe his Name, and hath caused the Seal of said Colony to be affixed the Twenty-fourth Day of October One Thousand Seven Hundred and Sixty-five, and in the Fifth Year of the Reign of his Most Sacred Majesty George the Third by the Grace of God King of Great Britain, &c.*

SAM: WARD

By His Honor's Command

EDWD THURSTON jun D: Secry.

# ADMISSION TO THE UNIVERSITY

## METHODS OF ADMISSION TO THE FRESHMAN CLASS

I. ENTRANCE EXAMINATIONS CONDUCTED BY THE UNIVERSITY. Examinations for admission to the Freshman class are given by the University in September at the times and places indicated below. The University no longer offers entrance examinations in June; candidates desiring to be examined in June must take the examinations conducted under the supervision of the College Entrance Examination Board, for which see pages 42, 43. A candidate may, at his option, take all his examinations in June or in September, or he may take part in June and part in September. Before taking any examination conducted by the University, a candidate must present to the Registrar a letter of recommendation from the principal of his preparatory school and secure a card admitting him to the examination. This may be done by correspondence, provided that the written application and the recommendation are received not less than one week before the date of the first examination.

If a candidate offers subjects in excess of those required for admission, he may be examined in them at the times scheduled below and receive credit for them as college studies.

The order of the examinations in 1910 will be as follows:

### THURSDAY, SEPTEMBER 22

*Algebra*, 27 Wilson Hall, 8 a.m. to 10 a.m.

*Plane Geometry*, 27 Wilson Hall, 10 a.m. to 12 m.

*Elementary French*, 2 Wilson Hall, 1 p.m. to 3 p.m.

*Advanced French*, 2 Wilson Hall, 3 p.m. to 5 p.m.

### FRIDAY, SEPTEMBER 23

*English A*, 26 Wilson Hall, 8 a.m. to 9.30 a.m.

*English B*, 26 Wilson Hall, 9.30 a.m. to 11 a.m.

*Elementary Latin*, 25 Wilson Hall, 12 m. to 2 p.m.

*Advanced Latin*, 25 Wilson Hall, 2 p.m. to 3.30 p.m.

*American History*, 27 Wilson Hall, 4 p.m. to 6 p.m.

### SATURDAY, SEPTEMBER 24

*Elementary German*, 2 Wilson Hall, 8 a.m. to 10 a.m.

*Advanced German*, 2 Wilson Hall, 10 a.m. to 12 m.

*Chemistry*, 2 Wilson Hall, 1 p.m. to 3 p.m.

*Solid Geometry*, 27 Wilson Hall, 3 p.m. to 5 p.m.

*Plane Trigonometry*, 27 Wilson Hall, 5 p.m. to 7 p.m.

## MONDAY, SEPTEMBER 26

*Astronomy*, 25 Wilson Hall, 8 a.m. to 10 a.m.

*Physiography*, 25 Wilson Hall, 10 a.m. to 12 m.

*Botany*, 2 Wilson Hall, 8 a.m. to 10 a.m.

*Greek and Roman History*, 25 Wilson Hall, 1 p.m. to 3 p.m.

*Physics*, 1 Wilson Hall, 4 p.m. to 6 p.m.

## TUESDAY, SEPTEMBER 27

*Elementary Greek*, 2 Wilson Hall, 8 a.m. to 10 a.m.

*Advanced Greek*, 2 Wilson Hall, 10 a.m. to 11.30 a.m.

*English History*, 25 Wilson Hall, 12.30 p.m. to 2.30 p.m.

*Medieval and Modern History*, 26 Wilson Hall, 2.30 p.m. to 4.30 p.m.

For students already pursuing courses in the University, entrance examinations are also given by the University at the close of the Christmas recess. Students desiring to take these examinations must file written applications with the Registrar before December 1. No student who has failed in an entrance examination will be granted a second examination at any time other than September, except on presentation of a tutor's certificate that he is prepared for such examination and on payment of a fee of two dollars. No entrance examinations other than those appointed above will be held unless ordered by vote of the Committee on Registration and Attendance.

II. ENTRANCE EXAMINATIONS CONDUCTED BY THE COLLEGE ENTRANCE EXAMINATION BOARD. Examinations conducted under the supervision of the College Entrance Examination Board will be accepted in place of the corresponding examinations conducted by Brown University. In 1910 these examinations will be held June 20-25.

All applications for such examinations must be addressed to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, and must be made upon a blank form to be obtained from the Secretary of the Board upon application. Applications for examination at points in the United States east of the Mississippi River, also at Minneapolis, St. Louis, and other points on the Mississippi River, must be received by the Secretary of the Board on or before Monday, June 4, 1910; applications for examination elsewhere in the United States or in Canada must be received on or before Monday, May 30, 1910; and applications for examination at points outside the United States and Canada must be received on or before Monday, May 16, 1910. Applications received later than the dates named will be accepted when it is possible to arrange for the examinations of the candidates concerned, but only upon the payment of \$5.00 in addition to the regular fee.

The examination fee is \$5.00 for all candidates examined at points in the United States and Canada, and \$15.00 for all candidates examined at points outside of the United States and Canada. The fee (which cannot be accepted in advance of the application) should be remitted by postal order, express order,

or draft on New York, to the order of the College Entrance Examination Board.

A list of the places at which examinations are to be held by the Board in June, 1910, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

**III. ADMISSION BY CERTIFICATE.** Students are admitted upon presentation of a certificate signed by the principal of any school which has the privilege of issuing certificates to Brown University.

Principals of schools in New England who desire the certificate privilege for Brown University, or for any other college represented on the New England College Entrance Certificate Board, should address the Secretary of the Board, Professor Nathaniel F. Davis, 159 Brown Street, Providence, R. I., who will furnish the necessary application blanks. These blanks must be returned to him before April 1 of the year for which the certificate privilege is desired.

The principals of schools situated outside of New England who desire the certificate privilege must make application to the Registrar of the University before May 1, and must furnish satisfactory evidence that the course of study in the school meets the requirements for admission. Blank forms for this purpose will be supplied on request. Certificates from the New York Board of Regents are accepted for the specified subjects so far as they coincide with the entrance requirements of Brown University.

Certificates are accepted for admission to the Freshman class only, not for admission to advanced standing. If any candidate offers subjects in excess of those required for admission he may be examined in them at the times indicated on pages 41, 42, and receive credit for them as college studies.

Blank forms for the certification of candidates may be obtained from the Registrar by the principals of schools having the privilege of certification. These forms should be filled out and returned to him by July 1. When a student has attended more than one school, a letter of recommendation from the principal of the school last attended must accompany the certificate.

## ENTRANCE REQUIREMENTS FOR THE VARIOUS DEGREES

**FOR THE DEGREE OF BACHELOR OF ARTS.** In Group I all subjects must be presented. In addition seven points must be presented from Groups II and III. In Group II subjects aggregating at least six points, including at least three points in ancient languages and at least one point in modern languages, must be presented. In Group III one subject may be presented.



GROUP I. *English*; see pages 45, 46, 47. *Algebra*; see page 48. *Plane Geometry*; see page 48. *Greek and Roman History*; see page 53.

GROUP II. *Latin (elementary and advanced)*, 3 points; see page 49. *Greek (elementary)*, 2 points; see pages 49, 50. *Greek (advanced)*, 1 point; see page 50. *French (elementary)*, 1 point; see page 50. *French (advanced)*, 1 point; see pages 50, 51. *German (elementary)*, 1 point; see pages 51, 52. *German (advanced)*, 1 point; see pages 52, 53.

GROUP III. *Solid Geometry and Plane Trigonometry*, 1 point; see page 49. *Medieval and Modern History, or English History, or American History*, 1 point; see page 53. *Physics*, 1 point; see pages 53, 54. *Chemistry*, 1 point; see page 54.

FOR THE DEGREE OF BACHELOR OF PHILOSOPHY. In Group I all subjects must be presented. In addition, seven points must be presented from Groups II and III. In Group II two or more languages are required, aggregating at least three points. In Group III free selection is allowed to complete the seven points.

GROUP I. *English*; see pages 45, 46, 47. *Algebra*; see page 48. *Plane Geometry*; see page 48. *Greek and Roman History, or Medieval and Modern History, or English History, or American History*; see page 53.

GROUP II. *Latin (elementary)*, 2 points; see page 49. *Latin (advanced)*, 1 point; see page 49. *Greek (elementary)*, 2 points; see pages 49, 50. *Greek (advanced)*, 1 point; see page 50. *French (elementary)*, 1 point; see page 50. *French (advanced)*, 1 point; see pages 50, 51. *German (elementary)*, 1 point; see pages 51, 52. *German (advanced)*, 1 point; see pages 52, 53.

GROUP III. *Solid Geometry and Plane Trigonometry*, 1 point; see page 49. *History (any one of the four divisions not presented in Group I)*, 1 point; see page 53. *Physics*, 1 point; see pages 53, 54. *Chemistry*, 1 point; see page 54. *Astronomy*, 1 point; see page 54. *Physiography*, 1 point; see pages 54, 55.

‡ FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING, MECHANICAL ENGINEERING, OR ELECTRICAL ENGINEERING. In Group I all subjects must be presented. In addition, four subjects must be presented from Groups II and III. In Group II at least three subjects must be presented. The fourth subject may be presented from either Group II or Group III.

GROUP I. *English*; see pages 45, 46, 47. *Algebra*; see page 48. *Plane Geometry*; see page 48. *Solid Geometry*; see page 49. *Greek and Roman History, or Medieval and Modern History, or English History, or American History*; see page 53.

GROUP II. *French (elementary)*; see page 50. *French (advanced)*; see pages 50, 51.

‡ The Degree of Bachelor of Science is given in Brown University only for engineering courses. The work is mainly technical and offers no freedom of election.



*German (elementary)*; see pages 51, 52. *German (advanced)*; see pages 52, 53. *Chemistry*; see page 54.

GROUP III. *Latin (elementary)*; see page 49. *Greek (elementary)*; see pages 49, 50. *Physics*; see page 54. *History (any one of the four divisions not presented in Group I)*; see page 53. *Astronomy*; see page 54. *Physiography*; see pages 54, 55. *Botany*; see page 55.

Applicants for admission who have had extensive training in freehand drawing, and who, by presentation of properly certified plates to the Committee on Registration and Attendance give evidence of exceptional ability in this work, may offer freehand drawing in place of any one of the subjects in Group III.

## ENTRANCE REQUIREMENTS IN THE SEVERAL SUBJECTS

I. ENGLISH. Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation. As training which will further these two ends, the candidate is required to pursue work in English grammar and composition, and to read a certain number of prescribed books.

The grammatical knowledge expected of the candidate includes simple grammatical terminology, inflections, and syntax. He should be able to spell, punctuate, and capitalize correctly, to use words properly, and to write clear and correct sentences and coherent paragraphs. In general this requires a review of grammar in the secondary school, regular practice in oral and written composition under criticism from the teacher throughout the four years of the secondary school course, and the coöperation of teachers of other subjects in the effort to secure good English in all recitations and written exercises.

The prescribed reading is divided into two parts: (1) books for reading; (2) books for study. The books in the first part the candidate should read carefully enough to grasp their meaning and to answer simple questions upon their content and style; but he should not pay such attention to details that the reading becomes a task. The books in the second part are to be treated with more attention to details of substance and form. The candidate should be able to explain the exact meaning of words, phrases, and allusions of which a definite knowledge is essential to understanding the text; to give a sensible, untechnical criticism of the structure and style; and to know such facts about the authorship, origin, and purpose of the works read as may be necessary to real understanding of them. He should also have a knowledge, definite but not highly detailed, of the lives of the authors of the books prescribed for study and of their place in literary history. Reading aloud, under criticism from the teacher, and the memorizing of some notable passages in prose and verse, are recommended. The candidate is also urged to do as much additional read-

ing as possible; certified lists of such reading may be submitted as part of the evidence of the candidate's fitness.

The examination is divided into two parts, which may be taken at different times. The first part covers the work in grammar and composition and the books prescribed for reading. It includes (1) questions upon grammar and usage; (2) questions upon the substance and style of the books prescribed for reading; (3) a brief composition on some topic assigned, usually a topic not connected with the prescribed reading. The second part of the examination is devoted to the books prescribed for study. It includes (1) questions upon the content, structure, and style of these books; (2) questions upon the authors' lives and their place in literary history.

The requirement of the College Entrance Examination Board in English is accepted as an equivalent of the requirement in English. Candidates who have credit for only part *a* of the Board examination must take part *b* of the Brown University examination, and also answer the questions upon grammar and usage in part *a* of the Brown University examination; those who have credit for only part *b* of the Board examination must take part *a* of the Brown University examination.

The books prescribed for reading are as follows:

FOR STUDENTS ENTERING IN 1910 AND 1911:‡ Shakspeare's *Merchant of Venice* and *Julius Caesar*; *The Sir Roger de Coverley Papers* in *The Spectator*; Franklin's *Autobiography*; Scott's *Lady of the Lake* and *Ivanhoe*; Hawthorne's *House of the Seven Gables*; Macaulay's *Lays of Ancient Rome*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Dickens's *Tale of Two Cities*.

FOR STUDENTS ENTERING IN 1912:‡ Shakspeare's *As you Like It* and *Julius Caesar*; Franklin's *Autobiography*; Goldsmith's *Deserted Village*; Dickens's *Tale of Two Cities*; George Eliot's *Silas Marner*; Irving's *Sketch Book*; Scott's *Lady of the Lake*; Byron's *Mazeppa* and *The Prisoner of Chillon*; Macaulay's *Lays of Ancient Rome*.

FOR STUDENTS ENTERING IN 1913, 1914, AND 1915, the books are arranged in the following groups, from which at least ten units§ are to be selected, two from each group:

1. The *Old Testament*, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the *Odyssey*, with the omission, if de-

‡ The lists for the classes entering in 1910, 1911, and 1912 are selected from the list adopted by the Conference on Uniform Entrance Requirements in English. Candidates may present other selections from that list provided they notify the Registrar, on or before the first day of August preceding the examination, of the substitutions they wish to make.

§ Each unit is set off by semicolons.

sired, of Books I, II, III, IV, V, XV, XVI, XVII; the *Iliad*, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; Vergil's *Aeneid*. The *Odyssey*, *Iliad*, and *Aeneid* should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

2. Shakspeare's *Merchant of Venice*; *Midsummer Night's Dream*; *As You Like It*; *Twelfth Night*; *Henry the Fifth*; *Julius Caesar*.

3. Defoe's *Robinson Crusoe*, Part I; Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe* or *Quentin Durward*; Hawthorne's *House of the Seven Gables*; Dickens's *David Copperfield* or *Tale of Two Cities*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; George Eliot's *Silas Marner*; Stevenson's *Treasure Island*.

4. Bunyan's *Pilgrim's Progress*, Part I; *The Sir Roger de Coverley Papers* in *The Spectator*; Franklin's *Autobiography* (condensed); Irving's *Sketch Book*; Macaulay's *Essays on Lord Clive* and *Warren Hastings*; Thackeray's *English Humourists*; *Selections from Lincoln*, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and the Letter to Horace Greeley; Parkman's *Oregon Trail*; Thoreau's *Walden* or Huxley's *Autobiography* and selections from *Lay Sermons*, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; Stevenson's *Inland Voyage* and *Travels with a Donkey*.

5. Palgrave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's *Elegy in a Country Churchyard* and Goldsmith's *Deserted Village*; Coleridge's *Ancient Mariner* and Lowell's *Vision of Sir Launfal*; Scott's *Lady of the Lake*; Byron's *Childe Harold*, Canto IV, and *Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Poe's *Raven*, Longfellow's *Courtship of Miles Standish* and Whittier's *Snow Bound*; Macaulay's *Lays of Ancient Rome* and Arnold's *Sohrab and Rustum*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*.

The books prescribed for study are as follows:

FOR STUDENTS ENTERING IN 1910 AND 1911: Shakspeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

FOR STUDENTS ENTERING IN 1912: Shakspeare's *Macbeth*; Milton's *Comus*, *L'Allegro*, and *Il Penseroso*, or Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

FOR STUDENTS ENTERING IN 1913, 1914, AND 1915: Shakspeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, and *Comus*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

II. ALGEBRA. ‡ The requirement in Algebra covers the work through equations of the second degree, including the following subjects: factors, common divisors, and multiples; fractions, ratios, and proportions; negative quantities and the interpretation of negative results; the doctrine of exponents; radicals and equations involving radicals; the binomial theorem for positive integral powers of the binomial, and the extraction of roots; putting questions into equations, and the reduction of equations; the ordinary methods of elimination; the solution of both numerical and literal equations of the first and second degrees with one or more unknown quantities, and of problems leading to such equations; arithmetical and geometrical progression.

It is important that the student should acquire a thorough knowledge not only of the practice, but also of the reasons involved in the elementary algebraic rules. He should likewise be able to use readily the more important formulae, as, for example, the quadratic formula.

The requirement of the College Entrance Examination Board in Mathematics *a* (i and ii) is accepted as an equivalent of the requirement in Algebra.

III. PLANE GEOMETRY. ‡ The requirement in Plane Geometry includes those propositions which are contained in the ordinary treatises and which are recognized as constituting the elements of Geometry; also original propositions and problems in mensuration.

Teachers of Geometry should lay stress on accuracy of statement and elegance of form as well as on clear and strict reasoning. Mere memorizing should be avoided. Special care should be taken that in the proof of a proposition no lines be drawn unless their construction is proved to be possible.

The requirement of the College Entrance Examination Board in Mathematics *c* is accepted as an equivalent of the requirement in Solid Geometry.

‡ Although candidates are not examined in Arithmetic, a knowledge of its fundamental principles and a careful training in accurate computation with whole numbers and with vulgar and decimal fractions are regarded as essential parts of a preparatory course.

The school curriculum should be so arranged that no term shall pass without some time being given to a mathematical subject, and that both Algebra and Geometry shall be taken either in review or in advance during the last year of the course. For a four-year course an average of two and one half hours a week should be given to mathematics.



IV. SOLID GEOMETRY. The requirement in Solid Geometry covers the usual theorems and constructions of good text-books, including the relations of planes and lines in space ; the properties and measurement of prisms, pyramids, cylinders, and cones ; the sphere and the spherical triangle ; the solution of numerous original exercises, including loci problems ; applications to the mensuration of surfaces and solids.

The requirement of the College Entrance Examination Board in Mathematics *d* is accepted as an equivalent of the requirement in Solid Geometry.

V. PLANE TRIGONOMETRY. The requirement in Plane Trigonometry includes definitions and relations of the six trigonometric functions as ratios ; circular measurement of angles ; proofs of principal formulae, in particular for the sine, cosine, and tangent of the sum and difference of two angles, of the double and half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc. ; the transformation of trigonometric expressions by means of these formulae ; the solution of trigonometric equations of a simple character ; the use of logarithms ; the solution of right and oblique triangles ; practical applications.

The requirement of the College Entrance Examination Board in Mathematics *f* is accepted as an equivalent of the requirement in Plane Trigonometry.

VI. ELEMENTARY LATIN. The requirement in Elementary Latin includes : (1) Caesar's *Gallie War*, Books I-IV, or Books I-III and Sallust's *Catiline*, with questions on the forms, the constructions, and the subject-matter ; (2) Cicero's *Orations against Catiline* and *Oration for Archias*, with questions on the grammar and the subject-matter ; (3) Ovid, twenty-five hundred lines, with questions on the subject-matter and prosody ; an equivalent amount of prose or poetry (preferably poetry) will be accepted in place of the requirement in Ovid ; (4) translation at sight of passages from Caesar and Cicero, with questions on the ordinary forms and constructions ; (5) translation into Latin of simple English sentences.

The requirement of the College Entrance Examination Board in Latin *a* (i and ii), *b*, *c*, *g*, and *m* is accepted as an equivalent of the requirement in Elementary Latin.

VII. ADVANCED LATIN. The requirement in Advanced Latin includes : (1) Vergil's *Aeneid*, Books I-VI, or Books I-V and the *Eclogues*, with questions on the constructions, the subject-matter, and prosody ; (2) translation at sight of prose and verse, with questions on the constructions, the subject-matter, and prosody ; (3) translation into Latin of a continuous passage of English narrative prepared from some portion of the prescribed prose.

The requirement of the College Entrance Examination Board in Latin *d*, *l*, *p*, and *q* is accepted as an equivalent of the requirement in Advanced Latin.

VIII. ELEMENTARY GREEK. The requirement in Elementary Greek

includes: (1) Xenophon's *Anabasis*, Books I-IV, with attention not only to language, but to subject-matter as well; (2) grammar, including a familiar knowledge of inflection, word-formation, and ordinary syntax. This will be tested by: (a) questions upon a passage from the *Anabasis*; (b) translation into Greek, with accents, of simple English sentences.

The requirement of the College Entrance Examination Board in Greek *a* (i and ii) and *b* is accepted as an equivalent of the requirement in Elementary Greek.

**IX. ADVANCED GREEK.** The requirement in Advanced Greek includes: (1) three books of Homer's *Iliad* or *Odyssey* with questions upon meter, Homeric dialect, etc., or (upon request four weeks in advance of the examination) an equivalent amount of a prose author; (2) translation at sight of simple Attic prose or Homer; (3) translation into Greek, with accents, of a continuous passage of English narrative, based upon material similar to the *Anabasis*.

The requirement of the College Entrance Examination Board in Greek *c*, *f*, *g*, and *h* is accepted as an equivalent of the requirement in Advanced Greek.

**X. ELEMENTARY FRENCH.** Candidates presenting Elementary French should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of every-day life or based upon a portion of the French text read, and to answer questions upon the rudiments of grammar.

The work of preparation should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and more common irregular verbs, plural nouns, adjectives, participles, and pronouns; the partitive constructions; the order of words in the sentence, and the elementary rules of syntax, including the simpler uses of the conditional and the subjunctive; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 250 to 400 duodecimo pages of easy modern prose in the form of stories, plays, or historical or biographical sketches, with constant practice in translating into French easy variations upon the texts read. Suitable elementary texts are: Daudet's easier short stories, Erckmann-Chatrian's stories, Enault's *Le chien du capitaine*, Foa's *Contes biographiques* and *Le petit Robinson*, Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon*, Laurie's *Mémoires d'un collégien*, Féval's *La fée des grèves*, Mérimée's *Colomba*, extracts from Michelet, Sarcy's *Siège de Paris*, Verne's stories.

The requirement of the College Entrance Examination Board in French *a* is accepted as an equivalent of the requirement in Elementary French.

**XI. ADVANCED FRENCH.** Candidates presenting Advanced French should be able to read at sight ordinary French prose or simple poetry, to translate



into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

The work should comprise the reading of from 250 to 400 pages (in addition to the amount read for the elementary requirement) of French of ordinary difficulty, of which a portion should be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation. Suitable texts are: About's stories, Augier and Sandeau's *Le gendre de M. Poirier*, Béranger's poems, Daudet's *La Belle-Nivernaise*, La Brète's *Mon oncle et mon curé*, Madame de Sévigné's letters, Anatole France's *Le crime de Sylvestre Bonnard* and *Le livre de mon ami*, Pailleron's *Le monde où l'on s'ennuie*, Hugo's *La chute*, Loti's *Pêcheur d'Islande*, Sandeau's *Mademoiselle de la Seiglière*, Thiers's *L'expédition de Bonaparte en Egypte*, de Vigny's *La canne de jonc*, Coppée's poems, de Maupassant's stories.

The requirement of the College Entrance Examination Board in French *b* is accepted as an equivalent of the requirement in Advanced French.

**XII. ELEMENTARY GERMAN.** Candidates presenting Elementary German should be able to read at sight and to translate a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions; to put into German short English sentences taken from the language of every-day life or based upon the text given for translation; and to answer questions upon the rudiments of the grammar.

Two years should be given to preparation in this subject. During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, including the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more common strong and irregular verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (4) easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the oral and written reproduction of ordinary forms of expression; (5) the reading of about 75 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson and in the reproduction from memory of sentences previously read; (6) the ability to understand and reproduce at hearing simple German prose.

During the second year the work should comprise: (1) the reading of about 125 pages of literature in the form of easy stories and plays; (2) practice in the translation into German of easy variations upon the matter read and in the reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments

of the grammar with special emphasis on the declension of adjectives and on word-order, directed to the ends of enabling the pupil to use his knowledge with facility in simple written and oral expression.

Stories suitable for the second year of the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder*; Arnold's *Fritz auf Ferien*; Baumbach's *Der Fiedelbogen des Neck* and *Der Schwiegersohn*; Gerstäcker's *Germelshausen*; Heyse's *L'Arrabiata*, *Das Mädchen von Treppi* and *Anfang und Ende*; Hillern's *Höher als die Kirche*; Jensen's *Die braune Erica*; Leander's *Träumereien* and *Kleine Geschichten*; Seidel's *Märchen*; Stökl's *Unter dem Christbaum*; Storm's *In St. Jürgen* and *Geschichten aus der Tonne*. Among the available plays are Benedix's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Fulda's *Unter vier Augen*; Wichert's *An der Majorsecke*; Wilhelmi's *Einer muss heiraten*. It is recommended, however, that not more than one play be read; the narrative style should predominate. A satisfactory selection would be: about forty pages of Andersen's *Märchen* or *Bilderbuch*, or Leander's *Träumereien* or *Höher als die Kirche*; a story by Heyse, Baumbach, Storm, or Seidel; and *Der Prozess*.

The requirement of the College Entrance Examination Board in German *a* is accepted as an equivalent of the requirement in Elementary German. ‡

**XIII. ADVANCED GERMAN.** Candidates presenting Advanced German should be able to read at sight German prose of ordinary difficulty, whether modern or classical; to put into German a connected passage of simple English paraphrased from a given text in German; to answer any grammatical questions relating to the usual forms and essential principles of the language, including syntax and word-formation, and to translate and explain (so far as explanation may be necessary) a passage of classical or modern literature taken from some text previously studied; to understand and reproduce at hearing fairly difficult German prose.

The work should comprise, in addition to the elementary course, the reading of about 300 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and the subjunctive), and word-order and word-formation.

Suitable reading matter can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein*; Freytag's *Bilder aus der deutschen Vergangenheit*,—for example, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouqué's *Undine*; Goethe's *Hermann und Dorothea* and *Egmont*; Heine's poems and *Reisebilder*; Lessing's *Minna von Barnhelm*; Meyer's *Der Heilige*; Moser's *Der Bibliothe-*

‡ Beginning with September, 1910, a part of all entrance examinations in German will be devoted to an oral test.

kar; Riehl's *Novellen*, — for example, *Burg Neideck*, *Der Fluch der Schönheit*, *Der stumme Ratsherr*, *Das Spielmannskind*; Rosegger's *Waldheimat*; Schiller's *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen*; Uhland's poems; Wildenbruch's *Das edle Blut*; Keller's *Romeo and Julia auf dem Dorfe*; Liliencron's *Anno 1870*; Fulda's *Der Talisman*; Grillparzer's *Sappho*.

The requirement of the College Entrance Examination Board in German *b* is accepted as an equivalent of the requirement in Advanced German. ‡

**XIV. HISTORY.** For examination in any of the historical fields named below the candidate will be expected to show such knowledge as may be acquired from the study of a good modern text-book of not less than 300 pages, supplemented by not less than 300 pages of suitable parallel reading. Questions on historical geography will be included in the examination. For preparation in either 1, 2, 3, or 4, a course of study equivalent to at least three lessons a week for one year is necessary.

No candidate will be allowed to present more than two of the four divisions.

1. Greek and Roman history: (a) Greek history to the death of Alexander, with due reference to Greek life, literature, and art; (b) Roman history to the end of the reign of Marcus Aurelius, with due reference to literature and government.

2. Medieval and Modern European history from the time of the barbarian invasions to the present.

3. English history, with due reference to political and social development and to international relations.

4. American history, including the elements of Civil Government.

The requirements of the College Entrance Examination Board in History are accepted as equivalents of the requirements in History.

**XV. PHYSICS.** The candidate's preparation in Physics should include (1) the study of at least one standard text-book, supplemented by the use of many and varied numerical problems, to the end that a pupil may gain a comprehensive and connected view of the most important facts and laws in elementary physics; (2) instruction, by lecture-table demonstrations, upon the general principles involved in the pupil's laboratory investigations; (3) individual laboratory work comprising at least thirty-five exercises. Every candidate must present as a part of the examination, a note-book, certified by the teacher, containing in the candidate's own language a description of his laboratory exercises, with a careful record of the steps, observations, and results of each exercise. The note-book must afford clear evidence of the pupil's ability to make accurate observations and to draw direct conclusions.

Students who offer Physics for entrance will be permitted to enter the more

‡ Beginning with September, 1910, a part of all entrance examinations in German will be devoted to an oral test.

advanced courses if, on consultation with the officers of the department, they are found to have the requisite qualifications.

The requirement of the College Entrance Examination Board in Physics is accepted as an equivalent of the requirement in Physics.

XVI. CHEMISTRY.‡ The requirement includes a knowledge of the more important non-metals and their principal combinations, about ten important metals and their principal salts, the more important topics of chemical philosophy, chemical nomenclature and notation, and the ordinary methods of stoichiometry. Candidates should have personally performed about one hundred simple experiments (those in Appleton's *Young Chemist* are mentioned as illustrations, but equivalents will be accepted). Every candidate must present, as a part of the examination, a note-book, certified by the teacher, containing in the candidate's own language a description of his laboratory exercises with a careful record of the steps, observations, and results of each exercise. A course accomplishing the preparation above outlined will require an amount of time equivalent to three hours a week for one school year.

The requirement of the College Entrance Examination Board in Chemistry is accepted as an equivalent of the requirement in Chemistry.

XVII. ASTRONOMY. The requirement in Astronomy implies class instruction for the equivalent of three hours a week for a school year in the elementary principles of the science, including observations of the heavens with reference to the positions and movements of the heavenly bodies. The following are the chief topics to be studied: *The Celestial Sphere*; designation of the directions of a heavenly body. *The Earth*; its axial rotation; time, latitude, longitude; its orbital revolution; precession; aberration, the seasons, equation of time, the calendar. *The Moon*; its axial rotation, orbital motion, librations, phases, surface features, physical condition; lunar and solar eclipses. *The Sun*; its rotation, physical characteristics, light, and heat. *The Planets*; apparent and real motions, individual characteristics. *The Law of Gravitation*; its control of the solar system; the tides. *Comets and Meteors*; their nature and motions. *The Stars*; designation, classification by constellations, motions, distance, brightness, variables. *Stellar Systems*; clusters, nebulae; the stellar universe, cosmogony.

As no examination in Astronomy is given by the College Entrance Examination Board, the examination in this subject must be taken in September at Brown University; see pages 41, 42.

XVIII. PHYSIOGRAPHY. The requirement in Physiography implies a thorough knowledge of the elementary principles as found in a standard textbook. The equivalent of a year's work of three hours a week is expected. The work should include the study of oceans, atmosphere, climate, weather, rivers;

‡ For admission to Chemistry 4, 5, 6, see page 83.



of land forms, their geographical distribution and classification, their origin, growth and decay; and some study of the interrelation of man and nature. Properly attested reports of field and laboratory work will be received and credited if submitted at the time of examination.

The requirement of the College Entrance Examination Board in Geography is accepted as an equivalent of the requirement in Physiography.

XIX. BOTANY. The candidate is expected to do an amount of work equivalent to that outlined in the "briefer course" in Bergen and Davis's *Laboratory and Field Manual of Botany* and *Principles of Botany*, or to that indicated in Bergen's *Foundations of Botany*. A certified statement of the laboratory notes and drawings made in connection with the course must be submitted at the time of the examination.

The requirement of the College Entrance Examination Board in Botany is accepted as an equivalent of the requirement in Botany.

## ADMISSION TO ADVANCED STANDING

A candidate for admission to advanced standing who comes from an approved institution of collegiate rank may receive credit, without examination, for work done at such institution, provided that he present to the Registrar a detailed statement of his previous work. This statement should include (1) a full list of the preparatory subjects accepted for admission by the institution previously attended; (2) a list of the subjects taken there, with their catalogue numbers and the standing attained therein by the student. It should be signed by the proper official and should be accompanied by a marked catalogue describing the subjects taken. The amount of credit to be given is determined by the Committee on Registration and Attendance.

Every other candidate for admission to advanced standing must first satisfy the entrance requirements of the course which he desires to enter. He may then receive credit for any subject included in the curriculum of the course, provided, first, that he notify in writing the Committee on Registration and Attendance, at the time he applies for admission to the University, of his intention to present the subject, and second, that he pass an examination in the subject before a date set by the Committee.

Every candidate must present a letter of honorable dismissal from the institution last attended.

Formal application for admission should be made to the Registrar, and should be sent, if possible, before August 1.

## ADMISSION OF SPECIAL STUDENTS

Mature persons of good character who desire to pursue some special subjects and who have had the requisite preliminary training are allowed to enter the various courses of study in the University without becoming candidates for a



degree. Special students are subject to the same regulations regarding attendance and examinations as candidates for degrees; they must take fifteen hours of class-room work a week unless satisfactory reasons for a smaller assignment are presented.

Applicants for registration as special students must present to the Registrar, on or before August 1 if possible, a certified and detailed statement of the nature and extent of their preparatory work, including testimonials of character and ability. Blanks for this statement will be furnished by the Registrar. In case a student has attended more than one institution, he must present credentials from all of them. Students who withdraw from a preparatory school before completing its course of study will not be admitted as special students unless the principal of the school distinctly recommends such action. Applicants must satisfy the Committee on Registration and Attendance, by passing the entrance examinations or presenting certificates, that they are qualified to pursue the courses desired.

Special students will be accepted as candidates for a degree only after they have fully satisfied the requirements for admission either by certificate or by examination.

### ADMISSION OF GRADUATE STUDENTS

To be admitted as a candidate for an advanced degree, an applicant must have received the degree of Bachelor of Arts, of Philosophy, of Science,<sup>‡</sup> or of Letters from Brown University or some other college of good standing; or, being a student in Brown University, must have completed with a rank of C the work leading to the degree of Bachelor of Arts, of Philosophy, or of Science, with the exception of such an amount as the Committee on Registration and Attendance will allow him to take in excess of a full year's work (fifteen hours a week). A candidate for the degree of Master of Science must have completed in his undergraduate course at least twenty-eight year-hours of work in mathematics and the sciences.

Persons who have obtained the degree of Bachelor of Arts, of Philosophy, of Science, or of Letters, and who desire to pursue graduate studies without being candidates for an advanced degree, are admitted as special graduate students. Such students are subject to all the regulations of the University regarding graduate students except those which relate to candidacy for degrees.

### REGISTRATION AND ENROLMENT OF UNDER-GRADUATES

**REGISTRATION.** In September of each year all new students, whether candidates for a degree or special students, must report at the Administration

<sup>‡</sup> The degree of Bachelor of Science when given for technical work does not lead to the degree of Master of Arts or Doctor of Philosophy in Brown University.

Building between 9 a.m. and 1 p.m. or between 2.30 p.m. and 5 p.m. on the Monday or Tuesday preceding the opening of the first term, and fill out registration cards for the whole of the ensuing year. Failure to comply with this rule will be treated as late registration and a fee of three dollars will be charged. All new students must present at or before the time of registration all credentials necessary for admission as candidates for a degree or as special students.

In May of each year all undergraduates in residence, whether candidates for a degree or special students, must obtain at the Registrar's office registration cards for the next year; these cards must be filled out by the students with a statement of the courses elected for the whole of the ensuing year, and returned not later than June 1. Failure to comply with this rule will be treated as late registration and a fee of three dollars will be charged.

Courses bearing a single number must be elected as a whole. When term courses are grouped in one paragraph (*e. g.* Astronomy 1, 2, 3), the second term may not be taken without the first, nor the third without the second, unless specific statement to the contrary is made. In starred courses a final mark covering the work of the course as a whole will be given at the end of the course, the marks given at the end of the preceding term or terms being regarded as temporary. Changes in registration will be allowed only on presentation of sufficient reasons to the Committee on Registration and Attendance. Requests for permission to make changes in September must be presented to the committee between 9 a.m. and 1 p.m. or between 2.30 p.m. and 5 p.m. on the Monday or Tuesday preceding the opening of the first term. Requests for permission to make changes for the second or third term must be presented to the committee before the beginning of the examinations of the first and second terms respectively, unless these requests are the result of failures, in which case they must be presented in writing to the Registrar two days before the opening of the second and third terms respectively.

**ENROLMENT.** In September all students whose registration cards have been already approved must report at the Registrar's office between 9.30 a.m. and 5 p.m. on the Monday or Tuesday preceding the opening of the first term and have their names checked as enrolled for the term. Failure to report will be treated as late enrolment and a fee of three dollars will be charged.

At the beginning of the second and third terms all undergraduates must report at the Registrar's office between 9.30 a.m. and 5 p.m. on one of the two days preceding the opening of the term and have their names checked as enrolled for the term. Failure to report will be treated as late enrolment and a fee of three dollars will be charged.

## REGISTRATION AND ENROLMENT OF GRADUATE STUDENTS

On or before the first day of the academic year, every candidate for registration as a graduate student must file an application with the Dean of the Graduate Department naming the departments, not exceeding three, which he wishes to enter. The application must be made on a blank provided by the Dean, and the blank must be signed by the heads of the departments concerned. The candidate, if not a student or graduate of Brown University, must submit to the Dean, with his application, his diploma or other official evidence of having received a first academic degree, together with a marked catalogue or detailed statement showing the academic courses he has pursued.

A student who has been registered as a graduate student is enrolled as a candidate for a degree when his course of study for the degree has been approved by the Dean of the Graduate Department and by the Faculty. Although graduates of other colleges of good standing are entitled to registration as graduate students, they are not enrolled as candidates for degrees unless the course of study previously pursued by them is, in the opinion of the Dean of the Graduate Department, acting in consultation with the Committee on Registration and Attendance, substantially equivalent to the course leading to the corresponding degree in Brown University. Graduates of colleges in which the course of study is not, in the opinion of this joint committee, equivalent to the corresponding course at Brown University, will be registered as graduate students, but if enrolled they will be required to make up their deficiency under the direction of the committee.

Candidates for advanced degrees must have their selection of courses approved by the heads of the departments in which they are working, and a statement of these courses must be submitted by the heads of the departments to the Dean of the Graduate Department on or before October 15. In the case of candidates for the degree of Doctor of Philosophy the statement submitted in the first year of candidacy may be a preliminary outline of the course, but a final statement must be submitted by the head of the department in which the major subject lies not later than October 15 in the last year of candidacy. No change can be made without the consent of the Dean of the Graduate Department and of the head of the department which offers the course.

# REQUIREMENTS FOR DEGREES

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## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

### I. PRESCRIBED SUBJECTS

**A**NCIENT Languages (either Latin or Greek, or both). Six hours. At least three hours must be taken in the Freshman year, and the six hours must be completed by the end of the Sophomore year.

*Modern Languages* (either French or German, or both). Six hours. At least three hours must be taken in the Freshman year, and the six hours must be completed by the end of the Sophomore year.

Students presenting elementary French only must continue French in the Freshman year and take elementary German in either the Freshman or the Sophomore year. Students presenting elementary German only must continue German in the Freshman year and take elementary French in either the Freshman or the Sophomore year. Students presenting elementary French and elementary German only must continue both languages, but may postpone the continuation of one language until the Sophomore year. Students presenting elementary work in one language and elementary and advanced work in the other must take in the Freshman year the language in which the elementary work only was presented. Students presenting elementary and advanced work in both languages may take the required six hours in either French or German, or both.

*Mathematics*. Four or five hours. Freshman year. Four hours for students not presenting Solid Geometry and Plane Trigonometry. Five hours for students presenting Solid Geometry and Plane Trigonometry.

*English*. Rhetoric and Composition. Three hours. Freshman year.

*European History*. Three hours. Sophomore or Junior year.

*English Literature*. Any one of the courses in English from 10 to 23 inclusive. Sophomore, Junior, or Senior year.

*Physical or Natural Science*. Some three-hour course continuous through the year. Freshman, Sophomore, or Junior year.

*Political Science, Social Science, and Economics*. One three-hour, one-term course in each of the three departments. Sophomore, Junior, or Senior year.

*Philosophy*. Some three-hour course continuous through the year. Sophomore, Junior, or Senior year.

## II. REQUIREMENTS ARRANGED BY YEARS

## FRESHMAN YEAR

- I. REQUIRED STUDIES. *Latin* 1, 2, 3 or *Greek* 1, 2, 3. *French* 1 or 2, 3, 4 or *German* 1 or 2. *Mathematics* 3, 1, 2 or *Mathematics* 4, 5; 15, 16. *English* 1.
- II. ELECTIVE STUDIES. One three-hour course continuous through the year must be chosen from the following list: *Latin* 1, 2, 3; for students presenting elementary and advanced Latin for admission. *Greek* A, B, C; for students not presenting Greek for admission. *Greek* 1, 2, 3; for students presenting elementary and advanced Greek for admission. *French* 1; for students not presenting French for admission. *French* 2, 3, 4; for students presenting elementary French for admission. *French* 5, 6, 7; for students presenting advanced French for admission. *German* 1; for students not presenting German for admission. *German* 2; for students presenting elementary German for admission. *German* 6, or 7, or 23, 24, 25; for students presenting advanced German for admission. *Greek* 34, *Latin* 30, *Indo-European Philology* 1 (*Greek and Roman Literature and the History of Language*); for all students. *Chemistry* 1, 2, 3;‡ for all students. *Botany* 1 or *Biology* 1; for all students. *Geology* 3; for all students.

## SOPHOMORE YEAR

That portion of the required work in ancient and modern languages not completed in the Freshman year, and other required and elective courses sufficient to make a total of fifteen hours a week.

## JUNIOR YEAR

The required History and Physical or Natural Science, if not previously taken, and other required and elective courses sufficient to make a total of fifteen hours a week.

## SENIOR YEAR

All required courses not previously taken, and elective courses sufficient to make a total of fifteen hours a week.

REQUIREMENTS FOR THE DEGREE OF  
BACHELOR OF PHILOSOPHY

## I. PRESCRIBED SUBJECTS

*Modern Languages.* An amount sufficient, with the work presented for admission, to complete the elementary course and a year of advanced work in both French and German. A student who is admitted in both advanced French and advanced German is required to continue one of these languages for one year, three hours a week.

‡ For admission to Chemistry 4, 5, 6, see page 83.



*Mathematics.* Four or five hours. Freshman year. Four hours for students not presenting Solid Geometry and Plane Trigonometry. Five hours for students presenting Solid Geometry and Plane Trigonometry.

*English.* Rhetoric and Composition. Three hours. Freshman year.

*European History.* Three hours. Sophomore or Junior year.

*Physical or Natural Science.* Some three-hour course continuous through the year. Freshman, Sophomore, or Junior year.

*Philosophy.* Some three-hour course continuous through the year. Sophomore, Junior, or Senior year.

## II. REQUIREMENTS ARRANGED BY YEARS

### FRESHMAN YEAR

I. REQUIRED STUDIES. *English* 1. *French* 1 or 2, 3, 4 or *German* 1 or 2. *Mathematics* 3, 1, 2 or *Mathematics* 4, 5; 15, 16.

II. ELECTIVE STUDIES. Two three-hour courses continuous through the year must be chosen from the following list: *Latin* 1, 2, 3; for students presenting elementary and advanced Latin for admission. *Greek* A, B, C; for students not presenting Greek for admission. *Greek* 1, 2, 3; for students presenting elementary and advanced Greek for admission. *French* 1; for students not presenting French for admission. *French* 2, 3, 4; for students presenting elementary French for admission. *French* 5, 6, 7; for students presenting advanced French for admission. *German* 1; for students not presenting German for admission. *German* 2; for students presenting elementary German for admission. *German* 6, or 7, or 23, 24, 25; for students presenting advanced German for admission. *Greek* 34, *Latin* 30, *Indo-European Philology* 1 (*Greek and Roman Literature and the History of Language*); for all students. *Chemistry* 1, 2, 3; ‡ for all students. *Botany* 1 or *Biology* 1; for all students. *Geology* 3; for all students. *Mechanical Drawing* 2, 3; for all students.

### SOPHOMORE YEAR

That portion of the required work in modern languages not completed in the Freshman year, and other required and elective courses sufficient to make a total of fifteen hours a week.

### JUNIOR YEAR

The required History and Physical or Natural Science, if not previously taken, and other required and elective courses sufficient to make a total of fifteen hours a week.

‡ For admission to Chemistry 4, 5, 6, see page 83.

## BROWN UNIVERSITY

## SENIOR YEAR

All required courses not previously taken, and elective courses sufficient to make a total of fifteen hours a week.

# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING

## FRESHMAN YEAR

| <i>First Term</i>  | <i>Second Term</i> | <i>Third Term</i> |
|--|--------------------|-------------------|
| Mathematics 17   | Mathematics 18     | Mathematics 19    |
| Mech. Drawing 6  | Mech. Drawing 6    | Mech. Drawing 6   |
| English 1  | English 1          | English 1         |
| <i>and two of the following courses, Chemistry, French, German, Spanish, subject to the direction of the Committee on Registration and Attendance.</i> |                    |                   |

## SOPHOMORE YEAR

|                      |                     |                      |
|----------------------|---------------------|----------------------|
| Mathematics 20       | Mathematics 21      | Mathematics 21       |
| Mech. Drawing 1      | Mech. Drawing 1     | Mech. Drawing 1      |
| Civil Engineering 4  | Civil Engineering 5 | Civil Engineering 6  |
| Physics 1            | Physics 2           | Physics 3            |
| ‡Political Science 1 | ‡Economics 1        | ‡Social Science 1    |
|                      | Civil Engineering 7 | §Civil Engineering 8 |
|                      | Civil Engineering 9 | Civil Engineering 10 |

## JUNIOR YEAR

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| Civil Engineering 11 | Civil Engineering 12 | Civil Engineering 19 |
| Mechanics 1          | Mechanics 1          | Mechanics 3          |
| Astronomy 4          | Astronomy 5          |                      |
| Physics 24           | Physics 24           | Physics 24           |
| Elect. Engineering 1 | Elect. Engineering 2 | Civil Engineering 15 |
| Geology 17           | Civil Engineering 14 | Geology 16           |

## SENIOR YEAR

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| Civil Engineering 23 | Civil Engineering 31 | Civil Engineering 17 |
| Civil Engineering 25 | Civil Engineering 29 | Civil Engineering 18 |
| Civil Engineering 26 | Civil Engineering 27 | Civil Engineering 28 |
| Civil Engineering 35 | Civil Engineering 35 | Civil Engineering 24 |
| Mech. Engineering 22 | Mech. Engineering 22 | Civil Engineering 36 |

‡ Or some other three-term course, in the Department of English, or History, or Philosophy, chosen with the approval of the head of the Department of Civil Engineering.

§ Civil Engineering 8 is taken during the spring recess.

| <i>First Term</i>    | <i>Second Term</i>   | <i>Third Term</i>    |
|----------------------|----------------------|----------------------|
| Mechanics 2          | Mechanics 2          | Civil Engineering 32 |
| Civil Engineering 13 | Civil Engineering 30 | Civil Engineering 34 |
|                      |                      | Botany 7             |

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

### FRESHMAN YEAR

| <i>First Term</i> | <i>Second Term</i> | <i>Third Term</i> |
|-------------------|--------------------|-------------------|
| Mathematics 17    | Mathematics 18     | Mathematics 19    |
| Mech. Drawing 6   | Mech. Drawing 6    | Mech. Drawing 6   |
| English 1         | English 1          | English 1         |

*and two of the following courses, Chemistry, French, German, Spanish, subject to the direction of the Committee on Registration and Attendance.*

### SOPHOMORE YEAR

|                       |                     |                     |
|-----------------------|---------------------|---------------------|
| Mathematics 20        | Mathematics 21      | Mathematics 21      |
| Mech. Drawing 1       | Mech. Drawing 1     | Mech. Drawing 1     |
| Mech. Drawing 4       | Mech. Drawing 5     | Mech. Engineering 8 |
| Physics 1             | Physics 2           | Physics 3           |
| ‡ Political Science 1 | ‡ Economics 1       | ‡ Social Science 1  |
|                       | Mech. Engineering 1 | Mech. Engineering 3 |

### JUNIOR YEAR

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| Mechanics 1          | Mechanics 1          | Mechanics 3          |
| Mech. Engineering 4  | Mech. Engineering 5  |                      |
| Mech. Engineering 9  | Mech. Engineering 10 | Mech. Engineering 11 |
| Physics 24           | Physics 24           | Physics 24           |
| Elect. Engineering 1 | Elect. Engineering 2 | Elect. Engineering 3 |
| Elect. Engineering 7 | Elect. Engineering 8 | Elect. Engineering 9 |

### SENIOR YEAR

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| Mechanics 2           | Mechanics 2           |                       |
| Mathematics 9         | Elect. Engineering 11 | § Physics 19          |
| Elect. Engineering 4  | Elect. Engineering 5  | Elect. Engineering 6  |
| Physics 23            |                       | Physics 23            |
|                       | Elect. Engineering 12 | Elect. Engineering 13 |
| Elect. Engineering 14 | Elect. Engineering 14 | Elect. Engineering 14 |
| Mech. Engineering 16  | Mech. Engineering 17  | Mech. Engineering 18  |
| Mech. Engineering 22  | Mech. Engineering 22  | Civil Engineering 32  |

‡ Or some other course, not technical, chosen with the approval of the head of the Department of Electrical Engineering.

§ Or an equivalent.

# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

## FRESHMAN YEAR

| <i>First Term</i> | <i>Second Term</i> | <i>Third Term</i> |
|-------------------|--------------------|-------------------|
| Mathematics 17    | Mathematics 18     | Mathematics 19    |
| Mech. Drawing 6   | Mech. Drawing 6    | Mech. Drawing 6   |
| English 1         | English 1          | English 1         |

*and two of the following courses, Chemistry, French, German, Spanish, subject to the direction of the Committee on Registration and Attendance.*

## SOPHOMORE YEAR

|                       |                     |                     |
|-----------------------|---------------------|---------------------|
| Mathematics 20        | Mathematics 21      | Mathematics 21      |
| Mech. Drawing 1       | Mech. Drawing 1     | Mech. Drawing 1     |
| Mech. Drawing 4       | Mech. Drawing 5     | Mech. Engineering 8 |
| Physics 1             | Physics 2           | Physics 3           |
| ‡ Political Science 1 | ‡ Economics 1       | ‡ Social Science 1  |
|                       | Mech. Engineering 1 | Mech. Engineering 2 |

## JUNIOR YEAR

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| Mech. Engineering 19 | Mech. Engineering 20 | Mech. Engineering 21 |
| Mech. Engineering 16 | Mech. Engineering 17 | Mech. Engineering 18 |
| Mech. Engineering 3  | Mech. Engineering 4  |                      |
| Mech. Engineering 9  | Mech. Engineering 10 | Mech. Engineering 11 |
| Mechanics 1          | Mechanics 1          | Mechanics 3          |
| Physics 24           | Physics 24           | Physics 24           |

## SENIOR YEAR

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| Mech. Engineering 22 | Mech. Engineering 22 |                      |
| Mech. Engineering 5  | Mech. Engineering 6  |                      |
| Mech. Engineering 12 | Mech. Engineering 13 | Mech. Engineering 14 |
| Mechanics 2          | Mechanics 2          | Mech. Engineering 15 |
| Elect. Engineering 1 | Elect. Engineering 2 | Elect. Engineering 3 |
| Mech. Engineering 23 | Mech. Engineering 24 | Civil Engineering 32 |
| Mech. Engineering 25 | Mech. Engineering 25 | Mech. Engineering 25 |

‡ Or some other course, in the Department of English, or History, or Philosophy, chosen with the approval of the head of the Department of Mechanical Engineering.

## REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

To obtain the degree of Master of Arts, the candidate must complete a course of liberal graduate study of not less than fifteen hours a week for one year. When graduate students pursue courses primarily designed for undergraduates, a higher degree of scholarship than in the case of undergraduates will be required.

Graduates of Brown University who have to their credit work done as undergraduates and not counted towards the bachelor's degree may offer such work in partial fulfilment of the requirements for the degree of Master of Arts, provided such work is in courses which may be taken by graduates and does not lie in more than three departments, and provided the student has completed the work with a grade of C.

Work done in residence for an advanced degree at another institution, and not to be used in fulfilment of the requirements for an advanced degree elsewhere, may, with the approval of the Dean of the Graduate Department, be offered in partial fulfilment of the requirements for the degree of Master of Arts; but the equivalent of at least nine hours' work a week for one year must be done at Brown University.

When any part of the work leading to the degree of Master of Arts is done *in absentia*, ‡ the degree will not be conferred until the end of the second full year of study. The degree *in absentia* must be taken within three years after enrolment, unless the period is extended by special action of the Faculty. Candidacy *in absentia* may be terminated at the end of six months if definite evidence of progress has not been submitted. Candidates *in absentia* must register (by correspondence, if necessary) at the beginning of each college year, and make reports to their instructors at the end of each term. A final public examination is required of all candidates *in absentia*. This examination will be held only when notification of the intention to appear for examination is given on or before April 1 of the year in which the candidate desires to receive the degree.

## REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE

To obtain the degree of Master of Science, the candidate must complete a course of scientific study satisfactory to the Dean of the Graduate Department and the departments concerned, of not less than fifteen hours of work a week for one year, and must present a thesis in one of the graduate courses which he is pursuing; in place of the thesis a six-hour graduate laboratory course extending through the year may be accepted. All the work must be in one or more of the following subjects: mathematics, engineering, physics, chemistry, astronomy, the biological sciences, psychology, geology, and min-

‡ Courses *in absentia* are not offered by all departments.



eralogy. At least half the work must be in courses designed wholly or primarily for graduates; the remainder may consist of any courses satisfactory to the departments concerned and to the Dean of the Graduate Department.

All the work must be done in residence at Brown University with the exception that work done for the degree of Master of Science at another institution, and not to be used in fulfilment of the requirements for any degree elsewhere, may, with the approval of the Dean of the Graduate Department and the departments concerned, be accepted in partial fulfilment of the requirements for the Degree of Master of Science to the extent of not more than six hours of work a week for one year.

## REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY ‡

To obtain the degree of Doctor of Philosophy, the candidate must spend at least two years continuously in residence, pursuing a systematic course of advanced study approved by the Graduate Department, the Faculty, and the Board of Fellows, and must pass satisfactory examinations thereon. The candidate must conclude his course with a thesis embodying the results of original research, giving evidence of high scholarship and of special attainments in the studies pursued, and constituting as a whole a definite contribution to knowledge. The candidate is examined publicly before June 1 by a committee consisting in each case of the Graduate Department, together with those members of the Faculty who have directed his work and any other officers of professorial rank in the departments concerned. The examination is held only when notification of the intention to appear for examination is given on or before April 1 of the year in which the candidate desires to obtain his degree. The thesis must be presented to the Faculty, in typewritten copy or print, before May 1 in that year. The approval of this thesis by the Faculty is essential to the attainment of the degree.

Work done in residence for the degree of Doctor of Philosophy at another institution, and not to be used in fulfilment of the requirements for an advanced degree elsewhere, may, with the approval of the Dean of the Graduate Department, be offered in partial fulfilment of the requirements for the degree of Doctor of Philosophy. One full year of continuous work, consisting of at least one-half of the minimum requirements for the major and one-half of the minimum requirements for the minor, must be spent at Brown University.

For the degree of Doctor of Philosophy at least two subjects are necessary, a major and a minor, not in the same department; the major subject must constitute not less than three-fifths of the candidate's work. The selection of

‡ As a rule the requirements for this degree, including the thesis, cannot be satisfied in less than three years.

the courses constituting the major and the minor subjects must receive the approval of the head of the department in which the major subject lies, and of the Dean of the Graduate Department. The approval of the head of the department in which the minor subject lies is also necessary for the courses elected in his department.

The candidate must possess a reading knowledge of Latin, German, and French adequate for the purposes of his special studies, unless for sufficient reasons he is excused in respect to one of these languages. To test the candidate's proficiency in this particular, he is examined before December 1 in the last year of his candidacy by a committee consisting of the heads of the departments in which the major and the minor subjects lie, and the heads of the departments of Latin, German, and French.

A year of work for the degree of Master of Arts may be, but is not necessarily, counted as a year of work for the degree of Doctor of Philosophy.

## REGULATIONS UNDER WHICH A STUDENT MAY TAKE A FIRST DEGREE IN LESS THAN FOUR YEARS

A candidate for a first degree, who has credit for the required number of hours of work, including all the required subjects, may, at the end of the term in which his work is completed, be excused from further attendance at the University and may receive his degree at the Commencement next following such term.

A candidate for a first degree who has maintained a satisfactory standing in his studies may, subject to the consent of the Committee on Registration and Attendance, take work in addition to the regular number of hours prescribed in the curriculum of the course which he is pursuing.

A candidate for a first degree may receive credit for work done at the summer school of an approved institution of collegiate rank, provided that the work have the approval of the head of the corresponding department in Brown University. The amount of credit given at the institution in question will be given at Brown University, but the total credit for work at summer schools in any one summer shall not exceed fifteen term hours.

A candidate for a first degree may, with the consent of the head of a department and with the approval of the Faculty, pursue studies connected with that department during any summer in which he does not attend a summer school, and may receive credit for such studies, provided that the work be under the supervision of the head of the department concerned and that the candidate pass an examination in all the work before the end of the following term. The amount of credit will be determined by the head of the department, but the total credit for any one summer shall not exceed nine term hours. No student will be allowed to do summer work in connection with any depart-

ment of the University until he has presented to the head of the department a registration slip signed by the Registrar.

A student who at the beginning of his Senior year lacks less than forty-five term hours of completing his course may, with the consent of the Committee on Registration and Attendance, distribute his work over the year.

A student who at the beginning of any term lacks less than fifteen term hours of completing his course may, for reasons deemed sufficient by the Committee on Registration and Attendance, be excused from taking more than the necessary number of hours.

For conditions under which graduate work may be pursued during the Senior year, see page 56, under "Admission of Graduate Students."

## ATTENDANCE, STANDING, AND EXAMINATIONS

**ATTENDANCE.** Every student is required to attend every exercise in the several studies to which he is assigned and also the daily Chapel service.

**STANDING.** A record is kept of the attendance of every student and of his proficiency in his several studies. At the close of each term a report is sent to the parent or guardian of every undergraduate student containing a record of all his absences from required exercises, and indicating his standing in each of his studies for the term and his deficiency in any study or studies, if any deficiency exists. A student who has failed in three or more courses in any term, counting for more than eight hours a week, cannot continue his work without the permission of the Committee on Registration and Attendance. The standing of students is indicated by letters as follows :

**H** is assigned to those whose work is of such excellence as to merit the designation of honor work.

**C** is assigned to those who have passed with credit.

**P** is assigned to those who have passed in the subject, but deserve no higher recognition.

**F** is assigned to those who have failed to pass, but who, in the opinion of the instructor, should be allowed a second examination.

**FF** is assigned to those whose work during the term has been so unsatisfactory that, in the opinion of the instructor, they should not be allowed an examination, or to those whose work in the regular examination has been so unsatisfactory that, in the opinion of the instructor, they should not be allowed a second examination, or to those who, in a laboratory course, have not completed half the work required.

**I** is assigned to those whose work is incomplete, but satisfactory so far as done.

**A** is assigned to those who were absent from the examination, unless **FF** has already been assigned.

**AA** is assigned to those who have been absent one-half the time in a course, or to those whose absence from the term examination is not excused by the Committee on Registration and Attendance.

**EXAMINATIONS.** Except in laboratory, seminary, and similar work, all classes are examined at the close of each term. A student is not admitted to the examinations unless his term bill has been paid in full. A student is not admitted to the examination in a study in which he has received the mark **FF** or **AA**.

Examinations other than the regular term examinations are given only in the

cases of: (1) students who have received the mark F, (2) students who have received the mark A, and (3) candidates for advanced standing.

A student is not admitted to a special examination except on written authorization from the Registrar. If the examination is taken to remove the mark F or A, the student must pay to the Registrar a fee of two dollars. The Registrar does not authorize special examinations for advanced standing or to remove the mark A without the consent of the Committee on Registration and Attendance.

Special examinations upon the work of the first and second terms are given only during the following term on the third Wednesday and succeeding Wednesdays and Saturdays, or in September of the next academic year, on as many days as may be necessary preceding the opening of the term. Special examinations upon the work of the third term are given only on the above-mentioned days in the following September.

Students desiring special examinations in the second or third term must make application to the Registrar not later than the first Saturday of the term, specifying the subjects in which examinations are desired. On or before the second Wednesday of the term, a schedule of all special examinations will be posted. Students desiring special examinations in September must make application to the Registrar not later than August 15, specifying the subjects in which examinations are desired. A schedule of the September examinations is sent to the students concerned about September 1. Special examinations on the work of the third term of the Senior year are arranged at the convenience of the instructor.

Special examinations at times other than those scheduled are allowed only by consent of the Committee on Registration and Attendance.

Special examinations for advanced standing are, so far as possible, arranged at the times assigned for other special examinations.



## COURSES OF INSTRUCTION

**I**N every department the courses that bear a single number must be elected as a whole. When term courses are grouped in one paragraph (e.g. *Astronomy 1, 2, 3*), the second term may not be taken without the first, nor the third without the second, unless specific statement to the contrary is made. In starred courses a final mark covering the work of the course as a whole is given at the end of the course, the marks given at the end of the preceding term or terms being regarded as temporary. When the time of meeting is not announced, it will be arranged by the instructor at the beginning of the term.

### I. ART ‡

WILLIAM CAREY POLAND, A.M., LITT. D., *Professor of the History of Art*

*1, 2, 3. History of Art from Antiquity through the Renaissance*

First term, ancient art; a general course in the history of ancient art, chiefly Greek. Second term, Roman, early Christian, and Medieval art; a study of Roman, Romanesque, and Gothic art, with some notice of Byzantine, Arabian, and Oriental art. Third term, art of the Renaissance; the fifteenth and sixteenth centuries; the effect on art of the dominant motives of the epoch, the development of art in the different countries of Europe, the great masters and their most significant works. Text-book, lectures, lantern views. Students who elect this course are advised to elect also, if possible, course 11, *Practical Work in Art*.

Three hours. Through the year. Elective for Sophomores, Juniors, Seniors, and Graduates. Each term may be elected independently. *Mon., Wed., Th., at 10.20.*

*4, 5. Modern Art*

First term, the seventeenth and eighteenth centuries. Second term, the nineteenth century. Text-book, lectures, special assigned topics, lantern views.

Three hours. First and second terms. Elective for Juniors, Seniors, and Graduates, who have credit for 3. *Tu., Th., Sat., at 12.20.*

*6. Theory and Criticism of the Fine Arts*

A study of the more important facts and laws of artistic production. Text-book, special assigned topics, illustrated lectures.

‡ For a statement of the courses in Music given in connection with this department, see page 141.

Three hours. Third term. Elective for students who have credit for any course in Art. *Tu., Th., Sat., at 12.20.*

[7. *Seminary in Classical Architecture*]

Critical study; reading of Vitruvius in Latin; discussion of the principles followed by the Greek and Roman architects, and of the influence of Vitruvius upon the Renaissance.

Three hours. Second and third terms. Elective for Graduates. Not offered in 1909-10.

8. *Seminary in Greek and Roman Sculpture*

An archaeological course based on Overbeck's *Schriftquellen*.

Three hours. Through the year. Elective for Graduates who read Greek and Latin. Offered if three or more elect the course. It is advised that applications be made to Professor Poland at an early date.

[9. *Seminary Study of the Acropolis of Athens*]

Critical reading, in Greek, of Pausanias' account of the Acropolis of Athens; lectures and illustrations.

Three hours. First term. Elective for Graduates who read Greek and Latin. Offered if three or more elect the course. Not offered in 1909-10.

10. *Freehand Drawing*

Training of hand and eye by progressive study of models of machine parts, casts of ornamental forms, and still-life objects.

One hour. Two hours of drawing. Through the year. Elective for all students. Given at the Rhode Island School of Design. *Tu., or Th., or Fri., at 2.20.*

11. *Practical Work in Art*

Six hours of drawing or other practical work. To illustrate the principles of delineation, light-and-shade, and color, and the principles of design in architecture, sculpture, and painting, as exemplified in the historic forms of art.

Three hours. Through the year. Elective for students who have credit for 10, and who have taken or are taking 1, 2, 3. Given at the Rhode Island School of Design. *Tu., Th., Fri., at 2.20.*

[12. *Seminary in Renaissance Art*]

Critical study of the art of the fifteenth and sixteenth centuries, particularly Italian. A more detailed study of the spiritual conditions, the influences, and the masters, than in 3.

Three hours. Through the year. Elective for Graduates who have credit for 3. Not offered in 1909-10.

## II. ASTRONOMY

WINSLOW UPTON, A.M., Sc.D., *Professor of Astronomy*

### 1, 2, 3. *General Course*

Fundamental conceptions of the science; methods of professional study; present state of our knowledge of the heavenly bodies. Young's *Manual of Astronomy*, Moulton's *Introduction to Astronomy*. Designed either for purposes of general culture or as a preparation for advanced work.

Three hours. Through the year. Elective for Juniors and Seniors who have credit for Mathematics 3, 1, 2. *Tu., Th., Fri., at 3.20*. Observations at Ladd Observatory.

### 4, 5. *Geodetic Astronomy*

Application of astronomy to geodesy; the problems of time, latitude, longitude, and azimuth. Computations and observations.

Three hours. First and second terms. Required of candidates for the degree of Bachelor of Science in Civil Engineering. Elective for Juniors and Seniors who have credit for Mathematics 3, 1, 2. May be taken at the same time as 1, 2, 3. Followed in the third term by Civil Engineering 15. *Mon., Tu., Th., at 2.20*. Observations at Ladd Observatory.

### 10, 11, 12. *Practical Astronomy*

Advanced study of geodetic applications of astronomy; method of least squares. Doolittle's *Practical Astronomy*, with instrumental observations.

Three hours. Through the year. Elective for Graduates, and for Undergraduates who have shown special aptitude for instrumental observations.

### 13, 14, 15. *Special Advanced Work*

Subjects selected to meet the requirements of individual students. Three hours. Through the year. Elective for Graduates and approved Undergraduates.

## III. BIBLICAL LITERATURE AND HISTORY†

HENRY THATCHER FOWLER, PH.D., *Professor of Biblical Literature and History*

HENRY ENGLANDER, PH.D., *Lecturer in Biblical Literature and History*

## LANGUAGES

1. *Elementary Hebrew*

Grammar; exercises in writing Hebrew; translation of parts of Genesis and Deuteronomy. *Professor FOWLER and Dr. ENGLANDER.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.

2. *Historical Hebrew*

Reading of the books of Samuel and Kings with special attention to the acquisition of a vocabulary; review of the elements of Hebrew grammar and study of syntax. *Dr. ENGLANDER.*

Three hours. Through the year. Elective for students who have credit for 1.

3. *Hebrew Literature*

Prophetic literature. Critical translation of the prophetic books of the Old Testament and study of the development of Israel's prophecy. In succeeding years corresponding courses in the Psalm, Wisdom, and Legal literature of the Old Testament will be offered. *Professor FOWLER and Dr. ENGLANDER.*

Three hours. Through the year. Elective for Graduates and approved Undergraduates.

4. *Textual Criticism of the Old Testament*

The principles and method of textual criticism, in connection with the study of one of the shorter prophetic books. *Dr. ENGLANDER.*

Three hours. One term. Offered if applied for by Graduates.

5. *Biblical Aramaic*

Grammar and reading of the Aramaic portions of the Old Testament. *Dr. ENGLANDER.*

Three hours. One term. Offered if applied for by students who have credit for 1.

† For conditions under which students may receive credit in the Newton Theological Institution for work done in this department, see page 161.

### 6. *Elementary Arabic*

Grammar; exercises in writing Arabic; translation of prose selections. *Professor FOWLER.*

Two hours. Through the year. Elective for Seniors and Graduates.

### 7, 8, 9. *Gospels and Epistles*

Characteristics of Hellenistic Greek; translation, and investigation of date, authorship, and thought. First term, the Johannine writings. Second term, the Gospel of Mark and the First Epistle of Peter. Third term, the Gospels of Matthew and Luke. If desired by the class, translation from the writings of Justin Martyr may be substituted for the specified reading of the third term. First and second terms, *Professor FOWLER.* Third term, *Professor ALLINSON.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently.

### [10, 11, 12. *Acts and Pauline Epistles*]

First term, Acts. Second term, Thessalonians and Galatians. Third term, Corinthians and Romans. First and second terms, *Professor FOWLER.* Third term, *Professor ALLINSON.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. Not offered in 1909-10.

## LITERATURE AND HISTORY IN ENGLISH‡

### [13, 17, 18. *Old Testament Literature and History*]

First term, early Semitic history, the formative age of Hebrew history, and Hebrew literature before the Monarchy. Second term, history and literature of the Hebrew Monarchy. Third term, Jewish history and literature from the Captivity to the conquest of Alexander. Includes nearly the entire Old Testament history and literature. In connection with 14, 19, 20, gives a comprehensive view of Biblical history and literature. The Biblical books are read in the best English translations. *Professor FOWLER.*

Three hours. Through the year. Elective for Sophomores, Juniors, Seniors, and Graduates. Not offered in 1909-10.

‡ Course 21, 22, 23 gives a rapid survey of the Bible as a part of the world's literature. It is designed especially for those who do not expect to pursue further courses in this department.

Courses 13, 17, 18 and 14, 19, 20 are introductory to more detailed courses in the University or the Theological Seminary. They are also designed for those who, without intending to specialize in this field, desire a comprehensive view of the nature and results of the historical as well as the literary study of the Bible.



14, 19, 20. *New Testament Literature and History*

First term, the Greek, Maccabean, and Roman ages of Jewish history and literature. Second term, the four Gospels and the life of Christ. Third term, the Acts, Epistles, Apocalypse, and the history of the Apostolic age. Includes a large part of the Jewish writings from the conquest of Alexander to the destruction of Jerusalem, and the entire New Testament, studied in its Jewish setting. Emphasis placed upon the connection between the history and the literature. In connection with 13, 17, 18, gives a comprehensive view of Biblical history and literature. The books are read in the best English translations. *Professor FOWLER.*

Three hours. Through the year. Elective for Sophomores, Juniors, Seniors, and Graduates. Each term may be elected independently. *Mon., Wed., Th., at 10.20.*

21, 22, 23. *The English Bible as Literature*

An outline of the literary history of the Old and New Testaments; the literary forms represented in the Bible; the place of the Bible in English literature. Emphasis placed upon the literature itself and its connection with the present. Lectures and assigned readings from the English Bible. First term, Old Testament literature from the beginning to the fall of Jerusalem in 586 B.C. Second term, from the Babylonian exile to the completion of the Old Testament. Third term, the New Testament. *Professor FOWLER.*

Three hours. Through the year. Elective for Sophomores, Juniors, Seniors, and Graduates. Each term may be elected independently. *Mon., Tu., Th., at 11.20.*

15.\* *Biblical Seminary*

Subject for 1909-10: Investigation of the sources for the life of Christ. *Professor FOWLER.*

Three hours. Through the year. Elective for Graduates and approved Juniors and Seniors.

[16. *Principles of Historical Criticism and Research*]

This course is the same as course 25 offered by the Department of History. *Professor MACDONALD.*

One hour. One term. Elective for Graduates of one year's standing. Required of all candidates for the degree of Doctor of Philosophy in Biblical Literature and History. Not offered in 1909-10.

## IV. BIOLOGY†

ALBERT DAVIS MEAD, PH.D., *Professor of Biology*

FREDERIC POOLE GORHAM, A.M., *Associate Professor of Biology*

HERBERT EUGENE WALTER, PH.D., *Assistant Professor of Biology*

PHILIP HENRY MITCHELL, PH.D., *Instructor in Physiology*

FRANK TAYLOR FULTON, Sc.B., M.D., *Instructor in Pathology and Histology*

JAY PERKINS, M.D., *Demonstrator in Anatomy*

JOHN BURNHAM FERGUSON, A.B., M.D., *Demonstrator in Anatomy*

### 1. *Introductory Course*

Introductory to all other courses in the department; also designed for those who, without intending to pursue the subject further, desire a general view of biological work and biological theories. Aims to give an introduction to laboratory methods of dissection and experiment and the use of the microscope, to afford a general view of the structure and functions of animals and plants, and to present an outline of the more important biological theories, such as evolution, natural selection, variation, mutation, and heredity. After the first term Biology 1 and Botany 1 are identical and the classes are combined. *Professor GORHAM.*

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates. *Mon., Tu., Th., 2.20 to 4.20.*

### 2. *Comparative Anatomy of Vertebrates*

Intended not only for the general student, but also for those who are particularly interested in zoology and for those who expect to study medicine. The structure and significance of the various organs of vertebrates with particular reference to man. Students are permitted to attend clinics and autopsies at the Rhode Island Hospital. Laboratory work and lectures. *Professor WALTER.*

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1.

### 3. *Bacteriology*

A general discussion of bacteria in all their relations, with special attention in the laboratory to the methods of studying bacteria, in-

† It is recommended that the undergraduate courses in Biology be taken in the following order; 1; 2; 10; 4, 5, 3; 7, 8 or 33; 9; 19 or 34, 30, 18; 16 or 17.

cluding the isolation, systematic study, and determination of unknown species. Lectures and laboratory work. *Professor GORHAM.*

Three hours. Six hours of attendance. Third term. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Mon., Wed., Th., at 10.20.*

#### 4, 5. *Advanced Histology and Pathology*

Advanced work in micro-technic and in normal and pathological histology. Adapted, to some extent, to individual requirements. *Professor MEAD and Dr. FULTON.*

Three hours. Six hours of attendance. First and second terms. Elective for Juniors, Seniors, and Graduates, who have credit for 1 and 10.

#### 7. *Chemical Physiology*

Designed both for those who are interested in physiology either from a medical or a general standpoint, and also for those who are specializing in chemistry and desire a knowledge of vital chemical processes. Includes: the chemistry of proteins, carbohydrates, and fats; the physiology of the digestive system, with the study of secretions and of artificial salivary, gastric, and pancreatic digestions; examination of blood, bile, and urine; the analysis of foods with special reference to milk. *Dr. MITCHELL.*

Three hours. Six hours of attendance. First and second terms. Must be preceded by Chemistry 1, 2, 3, and should be preceded by Chemistry 10. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Tu., Fri., Sat., at 10.20.*

#### 8. *Physical Physiology*

The physiology of muscle and nerve; the physics and physiology of the circulatory, respiratory, and alimentary systems; the causes and theories of sleep; the physiology of the special senses. *Dr. MITCHELL.*

Three hours. Six hours of attendance. Third term. Must be preceded by 7. Elective for Juniors and Seniors, and for Sophomores who are not taking any other course in the department. *Tu., Fri., Sat., at 10.20.*

#### 9. *Anatomy of the Nervous System*

A study of the architecture and composition of the brain, nerves, and sense organs in man; comparison with the nervous system of lower vertebrates; relation of nervous structure to mental activity. *Professor MEAD.*

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have credit for 1.

### 10. *Embryology and Histology*

The origin and the development of the individual body, the elementary structure of the adult organs. Practice in micro-technic. Adapted to the requirements of general students and those intending to study medicine. *Professor MEAD.*

Three hours. Six hours of attendance. Through the year. Elective for Juniors and Seniors who have credit for 1.

### 11. *Biological Theories and Biological Problems*

Seminary course. *Professor MEAD.*

One to three hours. Through the year. Elective for Graduates.

### 12. *Advanced Bacteriology*

Practical work in the preparation of culture media; methods of sterilization and disinfection; qualitative and quantitative biological examination of water, milk, air, soil, and sewage; study of certain pathogenic organisms, with the determination of their pathogenic properties, and the methods of bacteriological diagnosis of disease. Laboratory work and seminary. *Professor GORHAM.*

Three to twelve hours. Through the year. Elective for Juniors, Seniors, and Graduates, who have credit for 3.

### 13. *Physiology, advanced course*

Laboratory work and seminary. *Dr. MITCHELL.*

Three to twelve hours. Through the year. Elective for Graduates who have sufficient knowledge of chemistry and physiology.

### 14. *Human Anatomy*

A course in practical dissection. Laboratory instruction. Students also have an opportunity to attend certain operations at the hospital and to be present at autopsies. *Dr. PERKINS and Dr. FERGUSON.*

Three hours. Through the year. Elective for Graduates.

### 15. *Special Advanced Work*

Research work arranged to meet the requirements of individual students. *Professor MEAD.*

Three to twelve hours. Through the year. Elective for Graduates.

### 16. *Evolution*

The history of biology, principles of classification, geographical distribution, heredity, natural selection, variation, Mendelism, and the

relationship of man to the lower animals. Lectures and assigned reading. *Professor MEAD.*

Three hours. Third term. Elective for Juniors and Seniors. Not to be offered in 1910-11.

### [17. *Physiology*]

A general survey of the activities of living organisms with special reference to the human body, including some applications of modern physiology to healthful living. Lectures and assigned reading. *Dr. MITCHELL.*

Three hours. Third term. Elective for Juniors and Seniors. *Mon., Tu., Th., at 8.* Not offered in 1909-10. To be offered in 1910-11.

### 18. *Ornithology*

A study of birds regarded as a group of living animals in relation to their environment. Lectures and field identification of wild birds during their spring migration. *Professor WALTER.*

One hour. Two hours of attendance. Third term. Elective for Undergraduates.

### [19. *Entomology*]

A study of insects in their scientific and economic relations. Lectures and laboratory work. *Professor GORHAM.*

One hour. Two hours of attendance. First term. Elective for Undergraduates. Not offered in 1909-10. To be offered in 1910-11.

### 30. *Protozoology*

A consideration of the forms and activities of micro-organisms and their relation to disease. Lectures and laboratory work. *Professors GORHAM and WALTER.*

One hour. Two hours of attendance. Second term. Elective for Undergraduates.

### 31. *Bacteriological Research*

Research work arranged to meet the requirements of individual students. *Professor GORHAM.*

Three to twelve hours. Through the year. Elective for Graduates who have credit for 3 and 12.

### 32. *Zoological Seminary*

Reading and discussion of German zoological literature selected with reference to the needs of individual students. *Professor WALTER.*

One to three hours. Through the year. Elective for Graduates.



### 33. *Clinical Analysis*

Practice in methods of analysis used in medical diagnosis. Analysis of urine; examination of blood and of feces; gastric analysis. Dr. MITCHELL.

Three hours. Six hours of attendance. Third term. Must be preceded by 7. Elective for Juniors, Seniors, and Graduates, and for Sophomores who are not taking any other course in the department.

### 34. *Comparative Anatomy of Invertebrates*

A study of some important features of the anatomy of the invertebrates. Lectures and laboratory work. Professor GORHAM.

One hour. Two hours of attendance. First term. Elective for Undergraduates. Not to be offered in 1910-11.

## V. BOTANY ‡

JAMES FRANKLIN COLLINS, PH.B., *Assistant Professor of Botany*

### 1. *Introductory Course*

Introductory to other courses in the department; also designed for those who, without intending to pursue the subject further, desire a general view of biological work and biological theories. Aims to give an introduction to laboratory methods of dissection and experiment and the use of the microscope, to afford a general view of the structure and functions of plants and animals, and to present an outline of the more important biological theories, such as evolution, natural selection, variation, mutation, and heredity. After the first term Botany 1 and Biology 1 are identical and the classes are combined.

Three hours. Six hours of attendance. Through the year. Elective for Undergraduates. Mon., Tu., Th., 2.20 to 4.20.

### 2.\* *Histology and Physiology*

Minute structure and special functions of plants, and their tissues; embryology; cytology; glycerin and paraffin technic, etc. The work of the third term can be arranged to meet the more special needs of students intending to take up either medicine or forestry. Certain portions of this course may, with the approval of the instructor, be continued by Juniors, Seniors, and Graduates, in course 6.

‡ Students preparing for teaching or for botanical positions in the government or state experiment station service are advised to supplement courses 1, 2 and 3, 4, 5 with advanced or special work in course 6.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1, and for approved Graduates. Not to be offered in 1910-11. Alternates with 3, 4, 5. *Mon., Wed., Fri., at 12.20.*

### [3, 4, 5. *Comparative Morphology*]

Intended to give a general view of the evolution and classification of plants by a comparative study of the life-histories of certain types. First term, algae and fungi. Second term, mosses, ferns, etc. Third term, seed plants. Certain portions of this course may, with the approval of the instructor, be continued by Juniors, Seniors, and Graduates, in course 6.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1, and for approved Graduates. Not offered in 1909-10. To be offered in 1910-11. Alternates with 2.

### 6.\* *Special Course*

Arranged to meet the requirements of individual students. May be taken in successive years if previous work is not duplicated. Students electing this course should plan it definitely, in consultation with the instructor, before June 1 of the preceding academic year. Advanced, special, or research work upon almost any phase of botany may be chosen by students who are properly qualified.

One to three hours. Through the year. Elective for Graduates and for approved Juniors and Seniors. Graduates may, with the consent of the instructor, elect the course for more than three hours. Two to six hours of attendance for approved Juniors and Seniors.

### 7. *Trees*

Identification of native and introduced trees; characteristic structure of the more common kinds of wood. Lectures and field work. The required field trips will take place in the afternoon unless otherwise specially arranged, the number depending somewhat upon the length of the individual trips and the amount of work accomplished.

One hour. Two hours of attendance. Third term. Required in the Senior year for the degree of Bachelor of Science in Civil Engineering. Elective for other Undergraduates. Lectures, *Wed. at 8.*

## VI. CHEMISTRY

JOHN HOWARD APPLETON, A.M., Sc.D., *Newport-Rogers Professor of Chemistry*

JOHN EMERY BUCHER, Ph.D., *Associate Professor of Organic Chemistry*

ROBERT CAMPBELL WEED, Ph.B., *Instructor in Chemistry*

MOSES LEVEROCK CROSSLEY, Ph.B., *Instructor in Chemistry*

ROBERT FOSTER CHAMBERS, Ph.B., *Assistant in Chemistry*

HOVHANNÉS ZOVIGIAN, Ph.B., *Assistant in Chemistry*

### 1, 2, 3. *Descriptive Chemistry*†

Non-metals; metals, their metallurgy, compounds, and practical applications; theoretical chemistry. Lectures with experiments; written exercises; individual laboratory work. *Professor BUCHER, Messrs. WEED and CHAMBERS.*

Three hours. Through the year. Elective for Undergraduates. *1st div. Mon., Th., at 10.20; 2d div. Tu., Fri., at 10.20; 3d div. Wed., Sat., at 11.20.* Laboratory hours to be arranged with the instructor.

### 4, 5. *Qualitative Analysis*

First term, properties of the metallic elements; their separation from certain of their compounds. Laboratory work; recitations in qualitative analysis and in chemical philosophy; exercises in stoichiometry. Second term, the principal non-metals and the acids formed by them; methods of separation and recognition of acids and acid radicles. *Professor APPLETON and Mr. CROSSLEY.*

Three hours. Six hours of attendance. First and second terms. Elective for Juniors who have credit for 1, 2, 3.‡ *1st div. Fri. at 11.20; 2d div. Sat. at 10.20.* Laboratory hours to be arranged with the instructor.

### 6. *Quantitative Analysis*

Quantitative precipitations and separations of the most important elements and compounds; the principles upon which quantitative ap-

† Credit for the entrance requirement in Chemistry admits only to 1, 2, 3, which may be taken also without previous preparation. Students who wish to enter more advanced courses without taking 1, 2, 3 must pass a special test at the time of the entrance examination in Chemistry. This test will cover the following topics: 1. All of the non-metals with their principal compounds and the processes of manufacture of the chief commercial products from non-metals. 2. About thirty important metals, their occurrence, preparation from the ore, the preparation and uses of their chief compounds. 3. The general principles of chemical action which depend upon physical laws. 4. Methods of making chemical computations of moderate difficulty.

‡ Preparation for this test may require the equivalent of six hours a week for one school year.

paratus is constructed; chemical philosophy and stoichiometry continued. Chiefly laboratory work. *Professor APPLETON and Mr. CROSSLEY.* Three hours. Six hours of attendance. Third term. Elective for Juniors who have credit for 4, 5. *1st div. Fri. at 11.20; 2d div. Sat. at 10.20.* Laboratory hours to be arranged with the instructor.

### 7, 8, 9. *Quantitative Analysis, advanced course*

Assaying of metallic ores; analysis of agricultural materials; testing of chemicals used in textile establishments, etc. *Professor APPLETON and Mr. CROSSLEY.*

Six hours. Twelve hours of attendance. Through the year. Elective for Seniors and Graduates who have credit for 6. Laboratory hours to be arranged with the instructor.

### 10, 11, 12. *Organic Chemistry*

Preparation and analysis of representative organic compounds. Lectures, recitations, and laboratory work. *Professor BUCHER and Mr. WEED.*

Six hours. Through the year. First and second terms, three lectures a week and three laboratory periods a week. Elective for approved Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

### 13. *Assaying*

*Professor APPLETON and Mr. CROSSLEY.*

Six hours. Twelve hours of attendance. Third term. Elective for Seniors and Graduates who have credit for 1-6.

### 14. *Organic Dyes*

The chemistry and use of mordants, dyes, etc. *Professor APPLETON and Mr. CROSSLEY.*

Six hours. Twelve hours of attendance. Third term. Elective for approved Seniors and Graduates.

### 15, 16, 17. *Industrial Chemistry*

Lectures and laboratory work. *Professor APPLETON.*

Three to six hours. Six to twelve hours of attendance. Through the year. Elective for approved Graduates. Each term may be elected independently.

### [18, 19, 20. *Physical Chemistry*]

Lectures and laboratory work. *Professor BUCHER.*

Three hours. Through the year. Elective for approved Juniors, Seniors, and Graduates. Not offered in 1909-10.

*21, 22. Organic Chemistry, advanced course*

Professor BUCHER.

Three hours. First and second terms. Elective for approved Graduates.

*23. Inorganic Chemistry, advanced course*

Professor BUCHER.

Three hours. Third term. Elective for approved Juniors, Seniors, and Graduates.

*24, 25, 26. Organic Preparations, advanced course*

Professor BUCHER.

Three hours. Through the year. Elective for approved Juniors, Seniors, and Graduates.

*27, 28, 29. Inorganic Preparations, advanced course*

Professor BUCHER.

Three hours. Through the year. Elective for approved Juniors, Seniors, and Graduates, who have credit for 10, 11, 12.

*30, 31, 32. Research Work in Chemistry*

Professor BUCHER.

Three hours or more. Through the year. Elective for Graduates.

*33, 34, 35. Conference on Special Topics in Chemistry*

Professor BUCHER.

One hour. Through the year. Elective for approved students.

*36, 37, 38. Conference on Special Topics in Chemistry*

Professor APPLETON.

One hour. Through the year. Elective for approved students.

*41, 42, 43. Industrial Chemistry and Research*

Professor APPLETON.

Three hours or more. Through the year. Elective for Graduates.



## VII. CIVIL ENGINEERING ‡

JOHN EDWARD HILL, C.E.M., Sc.D., *Professor of Civil Engineering*

ARTHUR HORACE BLANCHARD,† C.E., A.M., *Associate Professor of Civil Engineering*

HENRY BERNARDIN DROWNE, C.E., *Instructor in Civil Engineering*

ALBERT EDDY LEACH, Sc.B., *Assistant in Civil Engineering*

4, 5, 6. *Surveying, elementary course*

Theory and practice of plane surveying; use of tape, compass, level, and transit; adjustment of instruments. Lectures, recitations, field work, and drafting. *Professor HILL, Messrs. DROWNE and LEACH.*

Three hours. One hour of recitation and usually six hours of field work or drafting. Through the year. Elective for students who have credit for Mathematics 2 or 18, and for Mechanical Drawing 2 or 6. *Fri. at 2.20; Mon., Th., 2 to 5.*

7. *Topographical Drawing*

Pen topography; contour drawing; conventional signs. *Mr. DROWNE.* One hour. Two hours of drafting. Second term. Not elective. *Wed. 2.20 to 4.20.*

8, 9. *Surveying, advanced course*

Topography; city surveying; use of stadia, plane table, and barometer; precise base-line measurements with steel tape. Methods as in 4, 5, 6. *Professor HILL, Messrs. DROWNE and LEACH.*

Three hours and two hours. Second term. Course 8 is taken during the spring recess. Elective for students who have credit for 4. *Wed., Fri., at 2.20.*

10, 11, 12, 13. *Railroad Engineering*

Theory, location, construction, and economics of railroad engineering. Lectures, recitations, field work, and drafting. Third term, railroad curves and practical problems. First term, actual location of a line about two miles long, map, and estimate of cost. Second term, railroad track and track work; maintenance of way department; economics of location. First term, earthwork and its cost; rock excavation; tunneling. *Professor HILL and Mr. LEACH.*

Three, four (eight hours of field work), three, and three hours. Third, first, second, and first terms. Courses 10 and 11 are elective for students who have

‡ All the courses in this department except 16 are required of candidates for the degree of Bachelor of Science in Civil Engineering; all except 7 and 32 and 35 are elective for other students.

† On leave of absence during the academic year 1909-10.

credit for Mathematics 2 or 18, and who have credit for or are taking 6. Courses 12 and 13 are elective for Juniors and Seniors. Third term, *Mon., Th., Sat., at 8*. First term, *Wed. 8 to 5*. Second term, *Tu., Wed., Sat., at 9.20*. First term, *Mon., Th., at 10.20; Fri. 3.20 to 5.20*.

#### 14. *Hydraulic Engineering* ‡

Consideration of water supply mainly from a sanitary standpoint. A general course designed to give the chemical and biological aspects of water supply without laboratory work. Lectures, recitations, and seminary work. *Professor HILL*.

Three hours. Second term. Elective for Juniors and Seniors. *Tu., Fri., Sat., at 10.20*.

#### 15. *Geodesy*

Problems in geodetic surveying, with sufficient theory for a proper understanding of the formulae used. Lectures and computations. *Professor HILL*.

Three hours. One hour of recitation and five hours of computation. Third term. Elective for students who have credit for 6 and 9, and Astronomy 5. *Th. at 10.20 and 1.20 to 6.20*.

#### 16. *Municipal Improvements*

Economic and social aspects of sewerage, water works, pavements, etc. *Professor HILL*.

Three hours. First term. Elective for Juniors and Seniors. Offered only if five or more elect the course. *Mon., Th., Fri., at 9.20*.

#### 17. *Hydraulic Engineering* ‡

Consideration of water supply mainly from an engineering standpoint. Irrigation, pumps, and pumping machinery; construction of dams and reservoirs. Lectures, recitations, and seminary work. Supplements Mechanics 2, which gives the theoretical treatment of the subject. *Professor HILL*.

Four hours. Third term. Elective for students who have credit for Mechanics 2. *Mon., Wed., Fri., Sat., at 9.20*.

#### 18. *Sanitary Engineering* ‡

Theory of sewerage, treatment and disposal of sewage; stream pollution; house drainage and its appliances; garbage collection and disposal. Lectures, recitations, and seminary work. *Professor HILL*.

‡ Courses 14, 17, and 18 cover the general subject of sanitation.

Four hours. Third term. Elective for students who have credit for Mechanics 2. *Mon., Wed., Fri., Sat., at 10.20.*

### 19. *Highway Engineering*

Economics, location, construction and maintenance of country roads; economics and design of street pavements; dust prevention and preservation of macadam roads; methods of testing road materials; roads and pavements in foreign countries. Lectures, recitations, inspection trips, and seminary work. *Mr. DROWNE.*

Three hours. Third term. Elective for Sophomores, Juniors, and Seniors. *Mon., Tu., Th., at 8.*

### 23. *Simple Framed Structures*

The standard forms of simple roof trusses; calculation by analytical methods of stresses due to dead, snow, and wind loads; calculation by analytical methods of stresses in Pratt, Howe, Warren, and parabolic trusses due to dead, wind, uniform live, excess panel live, road roller, and locomotive wheel loads; miscellaneous trusses, skew bridges, cranes, trussed bents, and towers. Lectures, recitations, and seminary work. *Mr. DROWNE.*

Three hours. First term. Elective for students who have credit for Mechanics 1 or 3. *Mon., Tu., Th., at 9.20.*

### 24. *Higher Framed Structures*

General analysis of continuous, movable, cantilever, and suspension bridges and three-hinged, two-hinged, and fixed-end arched ribs; calculations of stresses in continuous and non-continuous center-bearing swing bridges; theorem of three moments; deflection of framed structures; theorem of least work. Lectures, recitations, and seminary work. *Mr. DROWNE.*

One hour. Third term. Elective for students who have credit for 23. *Th. at 10.20.*

### 25. *Elements of Structural Design*

Center of gravity and moment of inertia of combinations of structural shapes; riveted joints, tension members, compression members, combined direct and bending stresses, secondary stresses, columns under direct and eccentric loading; wooden structures; plate girder, pin-connected, and riveted Pratt truss bridges; construction of viaducts and elevated railroads; steel mill-building and high-building

construction; comparison of standard structural specifications. Lectures, recitations, and computations. *Mr. DROWNE.*

Three hours. First term. Elective for students who have credit for Mechanics 1 or 3. *Mon., Tu., Th., at 8.*

## 26. *Roof Design and Graphic Statics*

Graphic determination of center of gravity of combinations of structural shapes; determination by graphical methods of moments in beams and stresses in simple roof trusses; determination of shears, moments, and stresses in simply supported bridge trusses by the use of influence lines; complete design, with general drawings, of a fifty to seventy foot roof truss; inspection trips. *Messrs. DROWNE and LEACH.*

Three hours. One hour of recitation and four hours of drafting. First term. Elective for students who have credit for Mechanical Drawing 1 or 2, and have credit for or are taking 23 and 25. *Tu. 10.20 to 12.20 and 1.20 to 5.20; Wed. 2 to 5.*

## 27,† 28. *Bridge Design*

Determination of stresses in plate girders; design, with general drawings, of a plate girder highway bridge; design, with general drawings, of a Pratt truss railroad bridge. Lectures on American and English shop practice; the esthetic design of bridges, design of stand-pipes and elevated tanks, and American methods of erection of bridges and structures. Lectures, drawing, computations, inspection trips, and seminary work. *Messrs. DROWNE and LEACH.*

Three hours. Six hours of drafting. Second and third terms. Elective for students who have credit for 26. Second term, *Tu., Th., 1.20 to 4.20.* Third term, *Tu. 10.20 to 12.20 and 1.20 to 5.20.*

## 29.† *Reinforced Concrete Structures*

Properties of reinforced concrete; theory and design of reinforced concrete arches in accordance with the elastic theory; theory and design of reinforced concrete beams, columns, retaining walls, dams, foundations, bridges, and culverts; systems of reinforcement; methods of construction; complete design, with drawings, of a fifty-foot reinforced concrete highway bridge; complete design, with drawings, of a reinforced concrete retaining wall. Lectures, recitations, drafting, and computations. *Messrs. DROWNE and LEACH.*

Five hours. Three hours of recitation and four hours of drafting. Second term.

†Courses 27, 29, 30 may not be elected separately

Elective for students who have credit for Mechanics 1 or 3 and Mechanical Drawing 1 or 2. *Mon.* 9.20; *Tu., Th.*, 9.20 to 12.20.

### 30. † *Masonry Structures*

Stone masonry; static and elastic theory of the masonry arch; design, with drawings, of a stone arch; theory and design of masonry piers, retaining walls, bridge abutments, and high masonry dams; complete design, with drawings, of a high masonry dam. Lectures, recitations, drafting, and computations. *Messrs.* DROWNE and LEACH.

Two hours. One hour of recitation and two hours of drafting. Second term. Elective for students who have credit for Mechanics 1 or 3 and Mechanical Drawing 1 or 2. *Mon.* at 8 and 10.20 to 12.20.

### 31. *Foundations*

Soundings and borings, foundation-beds, deposition of concrete under water, timber foundations, coffer dams, open caissons, Cushing cylinder piers, pile formulae, driving and foundations, pneumatic caissons of wood and steel, open dredging, the Poetsch freezing process, foundations in quicksand, foundations for high buildings. Lectures, recitations, and seminary work. *Mr.* DROWNE.

Two hours. Second term. Elective for students who have credit for or are taking Mechanics 2. *Tu., Th.*, at 8.

### 32. *Engineering Jurisprudence*

Essential elements of a contract, the parties to a contract, considerations, bids and bidders, work for private parties and public work. Employment of engineers, liability of the engineer as a professional man; when his functions are judicial; when he is a public officer. Real property, water rights, ownership, rights of way, boundaries, incorporeal rights, franchises, and patents. Engineering specifications and accompanying documents. Lectures and discussion of written decisions on typical cases assigned each week. *Mr.* DROWNE.

Two hours. Third term. Required of candidates for the degree of Bachelor of Science. *Tu., Th.*, at 9.20.

### 34. *Design of Sanitary Works*

Practical applications of the principles of design discussed in courses 17 and 18. Partial design of a sewerage system, water-works system, and filter plant. *Professor* HILL.

One hour. Two hours of drafting and computations. Third term. Elective for

† Courses 27, 29, 30 may not be elected separately.



students who have credit for or are taking 17 and 18 and have credit for Mechanical Drawing 1 or 2. *Mon. 2.20 to 4.20.*

### 35. *Thesis*

A thesis is required of all candidates for the degree of Bachelor of Science in Civil Engineering. The thesis must embody either a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

### 36. *Hydraulic Surveying*

Methods of surveying applicable to river and harbor work. Methods of measuring and rating the flow of streams. Actual measurement of the discharge of a stream by means of the current meter, weir, and floats. Recitations and field work. *Mr. DROWNE.*

Two hours. One hour of recitation and two hours of field work. Third term. Elective for students who have credit for 4 and 6 and have taken Mechanics 2. *Mon. at 8; Tu. 8 to 5.20.*

## VIII. ECONOMICS†

HENRY BRAYTON GARDNER, PH.D., *Professor of Economics*

WILLIAM KIRK, PH.D., *Assistant Professor of Economics*

### 1. *Elementary Economics*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor GARDNER.*

Three hours. Second term. Sophomore, Junior, or Senior year. Must be preceded by Social Science 1. Required of candidates for the degree of Bachelor of Arts; elective for other students who have credit for Social Science 1. *1st div. Tu., Fri., Sat., at 10.20; 2d div., Mon., Wed., Fri., at 12.20.*

### 2.\* *General Economics*

The development and significance of the more important elements in the existing industrial organization; the principles governing the production, exchange, distribution, and consumption of wealth; the more important practical problems of economic life. First and third terms, *Professor GARDNER.* Second term, *Professor KIRK.*

† The courses in this department other than 1 are open only to those students who have credit for Political Science 1, Economics 1, and Social Science 1, which together constitute an introduction to the advanced work of the departments of Social and Political Science and Economics.

Three hours. Through the year. Elective for Juniors and Seniors. *Tu., Fri., Sat., at 10.20.*

### 3. *Money and Banking*

Principles of money and banking; recent monetary and banking history, particularly of the United States; monetary and banking systems of leading industrial nations; present monetary and banking problems. *Professor GARDNER.*

Three hours. First and second terms. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1910-11. *Wed., Fri., Sat., at 11.20.*

### [4. *Public Finance*]

First term, general principles of public finance; revenues and expenditures of leading industrial nations. Second term, financial history of the United States. Third term, local finance: revenues, expenditures, and financial systems of American states and cities. *Professor GARDNER.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Not offered in 1909-10. To be offered in 1910-11.

### 5. *History and Present Tendencies of Economics*

Early economic theories: a critical examination of the theories of the early schools of economists, especially the physiocrats and the early English school, with particular attention to the relation between economic thought and economic life and practice. Recent economic theories: a study of the tendencies of the historical school, the Austrian school, and recent English and American writers. The growth of the principle of monopoly, its influence on the production and distribution of wealth and on the economic well-being of society. *Professors GARDNER and KIRK.*

Three hours. One session of an hour and a half weekly. Through the year. Elective for Seniors and Graduates who have credit for 2. Hours to be arranged with the instructor.

### 6. *The Labor Movement*

History and analysis of the trade-union movement; growth of collective bargaining; labor problems in the United States. *Professor KIRK.*

Three hours. First term. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 11.20.*

### 7. *Socialism*

A brief review of the historically important socialistic schemes;

mainly a study of the modern scientific socialism of Karl Marx and of the resulting socialistic movements. *Professor KIRK.*

Three hours. Second term. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 11.20.*

### 8. *Industrial Corporations*

Development of the corporate form of business organization; its effects; the problems to which it gives rise. Special emphasis on the recent movements toward combination, and toward state control of corporations, particularly quasi-public corporations. *Professor GARDNER.*

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. Not to be offered in 1910-11. *Wed., Fri., Sat., at 11.20.*

### [9. *The Tariff*]

The arguments for free trade and protection in relation to the principles of international trade; the history of tariff legislation and its effects in the United States. *Professor KIRK.*

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. Not offered in 1909-10. To be offered in 1910-11.

### 10, 11, 12, *Industrial History*

First term, the chief stages in the development of the industrial life of England, with special emphasis on the origin and development of the existing form of industrial organization. Second term, the more important aspects of the industrial development of the colonies and the United States to 1860. Third term, the growth, organization, and geographical distribution of the main branches of industry since 1860; the relation of the industrial life of the United States to that of the world at large. *Professor GARDNER.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. *Tu., Th., Sat., at 12.20.*

### 13. *Economic and Commercial Geography*

A study of the physical features of the land; of climate, winds, ocean currents and their relation to man; of the geographical distribution of food-stuffs and raw materials of industry; and of the consequent development of commerce and of civilization in its economic aspects. Lectures and conferences. This course is the same as Geology 12. *Professors BROWN and KIRK.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Wed., Th., at 10.20; Fri. 2.20 to 4.20.*

20, 21, 22. *Investigation of Special Topics*

Intended to train the student in methods of gathering, handling, and presenting data in the study of economic life and problems. Laboratory methods. Students desiring to elect these courses must obtain the consent of Professor Gardner or Professor Kirk before the close of the academic year preceding that in which the course is to be taken. *Professors GARDNER and KIRK.*

Three hours. Six hours of attendance. Through the year. Elective for approved Juniors, Seniors, and Graduates. Each term may be elected independently.

## IX. EDUCATION ‡

WALTER BALLOU JACOBS, A.M., *Professor of the Theory and Practice of Education*

ERNEST RUSSELL HAGER, A.B., *Assistant in Education*

1. *History of Education*

Education among the early culture peoples as forming and perpetuating their civilization; the development of education in Greece and Rome as parallel to the development of thought and learning; early Christian education; the renaissance and humanism; the rise of realism in thought and education. The history of education considered from the point of view of the history of civilization.

Three hours. First term. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 12.20.*

2. *Critical Study of Modern Education*

The beginnings of modern education; the naturalistic movement—Rousseau; the psychological movement—Pestalozzi, Froebel, Herbart; the scientific movement—Spencer; recent sociological tendencies; industrial education; the present status of higher education; problems which an adequate theory of education must solve.

‡ Courses 1, 2, and 3 treat education in its relation to the individual and to the social and political whole; interest in them is therefore not limited to those who intend to teach. At the same time they form an introduction to the more advanced courses in Education. Those who intend to teach are advised to elect these courses during the Junior year.

Courses 1-6 cover the usual requirements for certificates of the First Grade except where practice teaching or experience is demanded. In Rhode Island a certificate is required of all teachers in schools supported in whole or in part by public money. Certificates of the First Grade are granted without examination to those who have completed courses 1-6 and hold a college degree. Due credit is also given for separate courses.

Certificates, authorizing the holders to teach in the evening schools of the state, are issued without examination to students who have completed three years of regular work, including Education 1-3.

Three hours. Second term. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 12.20.*

### 3. *Fundamental Principles of Education*

The meaning and aim of education; the function of education as a social institution; the physical conditions of education; the aim of instruction; apperception; the choice and arrangement of studies; the principles of method; the use of the type in instruction; the training of the will; moral education.

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Fri., at 12.20.*

### 4. *Psychology of Education*

Theory and process of mental development, with special emphasis upon the period of adolescence; psychology of method, and of the various studies and disciplines; ways in which student and teacher may utilize a knowledge of the more fundamental activities of the mind.

Three hours. First term. Elective for Seniors and Graduates who have credit for 1, 2, or 3, or who are taking 1. *Mon., Tu., Th., at 11.20.*

### 5. *Hygiene of Education*

A study of bodily growth and development; special emphasis upon the period of adolescence; play and fatigue; physical culture and athletics; arrested growth; the conditions and surroundings which favor or retard normal development; the hygiene of mind; school hygiene.

Three hours. Second term. Elective for Seniors and Graduates who have credit for 1, 2, or 3, or who are taking 2. *Mon., Tu., Th., at 11.20.*

### 6. *Practical Introduction to Teaching*

The method of the recitation; management and discipline of classes; observation of good teaching; practical applications of method.

Three hours. Third term. Elective for Seniors and Graduates who have taken or are taking other courses in Education. *Mon., Tu., Th., at 11.20.*

### 7, 8, 9. *Methods in Secondary School Studies and the Organization, Equipment, and Management of Secondary Schools*†

Importance and meaning of secondary school studies; their organization into a curriculum; method as applied to each subject; the resources at the command of the teacher. The following studies receive

† In connection with this course, and for an explanation of the work of student-teachers, see page 162.



special attention: first term, Latin and Modern Languages; second term, History and English; third term, Science and Mathematics. Three hours. Two hours of class-room attendance. Through the year. Required of student-teachers. Elective for Graduates and experienced teachers. *Wed. 3.20 to 5.20*. Each term may be elected independently.

10, 11, 12. *Problems in Practical Teaching; Secondary Schools*† Practice teaching in the Providence High Schools under experienced teachers. Observation, reports, and conferences. Designed for those who wish to become instructors in colleges, teachers or principals in secondary schools, or superintendents of schools.

Three hours. Through the year. Elective for approved Graduates who have credit for elementary courses in Education and who are taking 7, 8, 9 and 16, 17, 18. *Fri. at 3.20*, and at other hours to be arranged.

13, 14, 15. *Problems in Practical Teaching; Grammar Grades*† Practice teaching in the Providence Grammar Schools under experienced teachers. Observation, reports, and conferences. Designed especially for those who wish to become grade teachers, principals of grammar schools, or superintendents of schools, but also for those who wish to teach in secondary schools. The following studies receive special attention: first term, Arithmetic; second term, Language; third term, History and Geography.

Three hours. Through the year. Elective for approved Graduates who have credit for elementary courses in Education and who are taking 16, 17, 18; also by special permission for a limited number of Seniors. *Mon. at 3.20*, and at other hours to be arranged.

16, 17, 18. *Seminary in Education*†

Reviews and discussions of recent publications; reports on special studies undertaken by members. The subjects vary from year to year. For 1909-10 they are: first term, Social Phases of Education. Second term, Industrial Education. Third term, The Administration of Schools.

Three hours. Through the year. Two hours of class-room attendance. Required of student-teachers. Elective for Graduates and experienced teachers. *Sat. 10.20 to 12.20*. Each term may be elected independently.

† In connection with this course, and for an explanation of the work of student-teachers, see page 162.

## X. ENGLISH ‡

WALTER COCHRANE BRONSON, A.M., LITT.D., *Professor of English Literature*

LINDSAY TODD DAMON, A.B., *Professor of Rhetoric*

ALBERT KNIGHT POTTER, A.M., *Associate Professor of the English Language*

GEORGE WYLLYS BENEDICT, PH.D., † *Associate Professor of English*

THOMAS CROSBY, A.M., *Assistant Professor of English and Public Speaking*

HENRY BARRETT HUNTINGTON, A.B., *Assistant Professor of English*

HOWARD BRISTOL GROSE, JR., PH.B., *Instructor in English*

WILLIAM THOMSON HASTINGS, A.M., *Instructor in English*

STANLEY BATES HARKNESS, A.B., *Instructor in English*

LAWRENCE RICH GROSE, A.M., *Assistant in English*

RALPH PHILIP BOAS, A.B., *Assistant in English*

### 1. *Rhetoric and Composition*

Lectures and recitations upon the principles governing prose style, prescribed reading and themes. Designed to give the student a clear and correct style and some critical standards. *Professors DAMON and HUNTINGTON, Messrs. H. B. GROSE, HASTINGS, HARKNESS, L. R. GROSE and BOAS.*

Three hours. Through the year. Required of all Freshmen. *1st, 2d, 3d, and 4th div. Mon., Tu., Th., at 11.20; 5th, 6th, 7th, and 8th div. Mon., Wed., Fri., at 12.20; 9th and 10th div. Tu., Th., Fri., at 3.20.*

### 2.\* *English Composition, second course*

Lectures, recitations, and prescribed reading; weekly themes and other written exercises. Intended to supplement the training given in 1, and to develop further the power of exact and lucid statement. *Mr. H. B. GROSE.*

Three hours. Through the year. Elective for Sophomores. *Mon., Wed., Th., at 10.20.*

### 3.\* *English Composition, advanced course*

Frequent practice in composition and criticism. Intended to develop

‡ Credit for English 1 is a prerequisite for admission to all other courses in English. The requirement in English Literature for the degree of Bachelor of Arts may be satisfied by taking any one of the courses from 10 to 23 inclusive.

† On leave of absence during the academic year 1909-10.

ease of style and clarity and vigor of thought. *Professor DAMON.*

Three hours. Through the year. Elective for Juniors and Seniors, and with the permission of the instructor for Sophomores who have attained the grade of C in 1. With the consent of the instructor the course may be repeated. *Mon., Tu., Th., at 2.20.*

#### [4.\* *Argumentative Composition*]

Lectures on the principles and forms of argumentative composition; frequent practice in brief-drawing and the writing of forensics and less formal arguments. Intended to develop the power of handling argumentative topics cogently and persuasively. *Professor HUNTINGTON.* Three hours. Through the year. Elective for Juniors and Seniors. Not offered in 1909-10. To be offered in 1910-11.

#### 5. *Argumentative Composition*

The principles and forms of brief-drawing and forensic writing. Lectures, written exercises, briefs, and forensics. Intended to furnish a more rapid training than 4, for students who wish to begin debate as early as possible or to go quickly over the fundamentals of argumentative composition. *Professor HUNTINGTON.*

Three hours. Two hours of attendance. First term. Elective for Juniors and Seniors. Not elective for students who have taken 4. *Mon. at 3.20; Fri. at 2.20.*

#### 6.\* *Debate*

Intended to train students in correct and vigorous oral presentation of ideas. *Professor HUNTINGTON, with the coöperation of the Professors of Economics, Social and Political Science, History, and Public Speaking.* Three hours. Second and third terms. Elective for a limited number of Juniors and Seniors who have credit for 5 or for one or more terms of 4. With the consent of the instructor the course may be repeated. *Mon. 3.20 to 5.20; Fri. 2.20 to 4.20.*

#### 7. *Public Speaking*

Principles of voice culture; vocal interpretation of literature; extempore speaking. *Professor CROSBY.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Wed., Fri., Sat., at 11.20.*

#### [8. *Public Speaking, advanced course*]

Practice in reading lyric, narrative, and dramatic literature, in extempore speaking, and in the composition and delivery of the common forms of the occasional address. Special attention to securing

right tone-production and to improvement in speech. *Professor CROSBY.*

Three hours. Through the year. Elective for a limited number of Juniors and Seniors who have credit for 7. Not offered in 1909-10.

### 9. *Old English*

Essentials of Anglo-Saxon grammar; prose selections; *Béowulf*. *Professor POTTER.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 3.20.*

### 10. *Chaucer*

Careful reading of most of Chaucer's works; study of Middle English grammar, with some attention to the development of Modern English. *Professor POTTER.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 4.20.*

### 11. *English Literature from the Beginning to the Present Time*

An outline course in the history of English literature, with reading and study of the greater writers. *Professor BRONSON, assisted by Mr. HARKNESS.*

Three hours. Through the year. Elective for Sophomores. *Tu., Th., Sat., at 12.20.*

### [12. *English Literature exclusive of the Drama, from 1400 to 1600*]

Medieval literary forms and the transition to the modern period: romance, ballad, allegory, satire, Elizabethan novels and lyrics. *Professor BENEDICT.*

Three hours. Through the year. Elective for students who have credit for 10 and one other of the courses from 9 to 23 inclusive. Not offered in 1909-10.

### [13. *History of the Drama in England*]

The drama as a literary type and its history in England to 1642. *Professor POTTER.*

Three hours. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. Not offered in 1909-10. To be offered in 1910-11.

18. *The Modern English Drama*

Preliminary study of Elizabethan plays; reading and study of the greater playwrights from 1642 to the present day. *Professor CROSBY.*  
Three hours. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. *Mon., Tu., Th., at 11.20.*

14. *Shakspeare*

Careful study of a few plays with special attention to exact interpretation. In 1909-10 the plays read will be *Othello, Henry V, King Lear, All's Well that Ends Well, Antony and Cleopatra, The Tempest.*  
*Mr. HASTINGS.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors.  
*Tu., Fri., Sat., at 10.20.*

15. *Shakspeare*

Shakspeare as dramatist and poet; reading of all the plays. *Professor POTTER.*

Three hours. Through the year. Elective for Juniors and Seniors. *Tu., Th., Sat., at 12.20.*

[16. *English Literature exclusive of the Drama, from 1600 to 1660*]

The decline of the Elizabethan spirit; Puritanism and Anglicanism in literature; the "metaphysical" and mystical poets; the cavalier lyrists; all the English poems and some of the prose works of Milton.  
*Professor BRONSON.*

Three hours. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. Not offered in 1909-10.

[17. *English Literature from 1660 to 1798*]

The Restoration drama; the classical school; development of the essay and the novel; the beginnings of romanticism. *Professor HUNTINGTON.*

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for students who have credit for any one of the courses from 10 to 23 inclusive. Not offered in 1909-10.

19. *English Literature from 1798 to 1832*

The romantic revolt in its critical and imaginative phases; influence of the French revolution; individualism in form and spirit. *Professor HUNTINGTON.*



Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for Sophomores, Juniors, and Seniors. *Tu., Wed., Sat., at 9.20.*

*20. English Literature from 1832 to 1892*

The Victorian period; modifications of romanticism in prose and poetry; realism; the influence of science and democracy; tendencies at the end of the century. *Professor DAMON.*

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for Sophomores, Juniors, and Seniors. *Mon., Wed., Th., at 10.20.*

[50. *The Modern Novel*]

A study of the currents of modern life and thought as expressed in some of the best novels of the nineteenth century. *Professor DAMON.*

Three hours. Third term. Elective for Sophomores and Juniors who have taken French 50 and German 50. Not offered in 1909-10.

*22. American Literature*

American literature from the beginning, in its relation to American life and to English literature. *Professor BRONSON.*

Three hours. Two meetings a week, and a third meeting at the pleasure of the instructor. Through the year. Elective for students who have credit for 11, 19, or 20. *Mon., Tu., Th., at 3.20.*

*23. Seminary in English Literature*

Subject for 1909-10: Studies in Tennyson and Browning. *Professor BRONSON.*

Three hours. Two hours of attendance. Through the year. Elective for Graduates, and for a limited number of Seniors who have attained the grade of C in two of the courses from 9 to 22 inclusive.

## XI. GEOLOGY†

CHARLES WILSON BROWN, A.M., *Assistant Professor of Geology*

NELSON CLARK DALE, A.M., *Assistant in Geology*

JAMES COOK MARTIN, Ph.B., *Assistant in Geology*

### 3. *General Geology*

A discussion of the origin, weathering, and metamorphism of rocks; of other agencies that have affected the formation and development of the earth and its crust; of certain land-forms and the stages of their development; a review of earth changes, with special reference to the development of the North American continent; the types of life characteristic of the different periods, and the principles of organic evolution they illustrate. Lectures, illustrated by models and lantern views. One third of the first term will be devoted to laboratory work. Two field trips will be taken in the first term and three in the third term. *Professor BROWN, Messrs. DALE and MARTIN.*

Three hours. Through the year. Elective for Undergraduates, except Sophomores who elect 1. *Tu., Fri., Sat., at 10.20.*

### 6. *Dynamical and Structural Geology*

An advanced course dealing with sedimentary formations old and new; with mineral veins, folds, faults, mountain-making, and other characteristics of crustal movements; and with the nature and results of igneous and metamorphic activities.

Three hours. One term. Offered if applied for. Elective for students who have credit for 3 or 16.

### 1. *Mineralogy and Petrography*

Discussion of crystal forms and the laws of crystallography; the more common minerals and ores and their recognition and determination by their physical properties and by blow-pipe analysis; study of the optical properties of the rock-forming minerals under the polarizing microscope; the exact determination of rocks; a discussion of the fundamental principles of the origin and classification of rocks and ores. Lectures and laboratory work. *Professor BROWN, Messrs. DALE and MARTIN.*

† Students who wish a general view of the geologic processes concerned in the development of the earth and its life should take course 3. Those who contemplate teaching physical geography should take also courses 12, 9, 8, 13. Students who desire to specialize in mining engineering, geology, or geography, in order to teach or to obtain appointment on government or state geological surveys, are advised to elect first the work in general geology and to follow it with courses 1, 11, 9, 8, 6, 12, 13, approximately in the order given.

Three hours. Six hours of attendance. Through the year. Elective for Sophomores who do not elect 3, and for Juniors and Seniors. *Tu. and Th. at 11.20.*

### 9, 8, 11. *Field Geology*

Geological maps, their use and methods of construction; practice in the actual working out of the surface geology and stratigraphy of an assigned definite area. Field work and reports.

Three hours. Through the year. One conference hour to be arranged with the instructor and the equivalent of six hours' work in the field-area. Elective for Juniors, Seniors, and Graduates. The first term may be taken independently and is elective for students who have credit for 3 or 16; the first and second terms may be elected as a two-term course; the third term may be elected independently by students who are taking 3 or 16.

### 17, 16. *Engineering Geology*

A discussion of the geologic processes and results that are closely related to engineering problems. Lectures, laboratory and field work. The first term includes laboratory work upon the rock-forming minerals, typical rocks, and building stones. Two field trips in the first term and three in the third term are required, with detailed notes of the regions visited. *Professor BROWN, Messrs. DALE and MARTIN.*

Two hours (four hours of attendance), three hours. First and third terms. Required in the Junior year for the degree of Bachelor of Science in Civil Engineering. Not elective. *Tu. 9.20 to 11.20; Fri. 10.20 to 12.20; Mon., Wed., Fri., at 10.20.*

### 12. *Economic and Commercial Geography*

A study of the physical features of the land; of climate, winds, ocean currents and their relation to man; of the geographical distribution of food-stuffs and raw materials of industry; and of the consequent development of commerce and of civilization in its economic aspects. Lectures and conferences. This course is the same as Economics 13. *Professors BROWN and KIRK.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Wed., Th., at 10.20; Fri. 2.20 to 4.20.*

### 13. *Geographic Seminary*

Discussions and reports on advanced problems of geography.

Three hours. One hour of attendance. Through the year. By special arrangement with the instructor, the course may be taken for a shorter period. Elective for Graduates, for Undergraduates who have passed the first term's work in course 12, or an equivalent. *Sat. at 11.20.*

### 14. *Geologic Investigation*

Research work in the field and the laboratory, arranged to meet the needs of individual students.

Through the year. By special arrangement with the instructor, the course may be taken for a shorter period. Elective for qualified Graduates and for from one to six hours for approved Undergraduates.

## XII. GERMANIC LANGUAGES AND LITERATURES†

CAMILLO VON KLENZE, PH.D., *Professor of the Germanic Languages and Literatures*

ASA CLINTON CROWELL, PH.D., *Associate Professor of the Germanic Languages and Literatures*

JOHANNES BENONI EDUARD JONAS, PH.D., *Assistant Professor of the Germanic Languages and Literatures*

ROBERT MCBURNEY MITCHELL, A.B., *Instructor in German*

### 1. *Introductory Course*

Reading, grammar, composition, conversation, dictation, sight reading. *Professors CROWELL and JONAS, Mr. MITCHELL.*

Three hours. Through the year. Required of all students who did not present German for admission. *1st div. Tu., Wed., Sat., at 9.20; 2d div. Mon., Th., Fri., at 9.20; 3d div. Tu., Th., Sat., at 12.20; 4th div. Mon., Tu., Th., at 2.20.*

### 2. *Intermediate Course*

Reading of modern German stories (of the type found in Batt and Allen's *German Stories*, volumes 1 and 2), lyrics (von Klenze or Hatfield), and one or two dramas of the classical period. Review of grammar; composition; conversation based upon the texts read. *Professor JONAS and Mr. MITCHELL.*

Three hours. Through the year. Required of all Freshmen who presented elementary German for admission. Not elective for students who have taken German in college. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Fri., Sat., at 10.20; 3d div. Mon., Wed., Th., at 10.20.*

†Students wishing recommendations to teach German from the Department of Germanic Languages and Literatures must pass a special examination designed to test their ability to write and to understand German, and, to some extent, to use the spoken language.

### 3, 4, 5. *Reading Course*

Reading of modern German stories (of the type found in Batt and Allen's *German Stories*, volumes 1 and 2), lyrics (von Klenze or Hatfield), and two dramas illustrating respectively the classical and the modern period (for example, Schiller's *Maria Stuart* and Hebbel's *Agnes Bernauer*). Review of grammar; composition; conversation based upon the texts read. *Professor CROWELL.*

Three hours. Through the year. Elective for students who have credit for 1. *Mon., Wed., Th., at 10.20.*

### 6. *Modern Prose*

Aims to train the student in reading, speaking, writing, and understanding modern German. Reading of texts selected from fiction, history, and science (for example, Liliencron, Keller, Freytag, Helmholtz, Nichols's *Modern German Prose*), and a text (such as Mosher's *Willkommen in Deutschland*) to introduce the student to the actual language of modern daily life. Talks in German; oral and written reports in German; letter-writing, composition, and conversation. *Professors VON KLENZE and JONAS.*

Three hours. Through the year. Elective for students who have credit for 1 or 2, or 3, 4, 5, and for students who presented advanced German for admission. *Tu., Fri., Sat., at 10.20.*

### 7. *Advanced Course in Standard Authors, Classical and Modern*

One drama of Goethe or Schiller, one drama of Grillparzer, one drama of Hebbel, Keller's *Romeo und Julie auf dem Dorfe*, Sudermann's *Frau Sorge*. Talks in German on the history of German literature; oral and written reports in German. *Mr. MITCHELL.*

Three hours. Through the year. Elective for students who have credit for 2, and for students who presented advanced German for admission. *Mon., Tu., Th., at 11.20.*

### [23, 24, 25. *German Lyrical Poetry*]

Introduces the student to the various aspects of the inner life of the German people as reflected in the lyrical poetry of the last two centuries. Lectures in German; oral and written reports in German.

Three hours. Through the year. Elective for students who have credit for 5 or 7, or who presented advanced German for admission; also for other approved students. Each term may be elected independently. Not offered in 1909-10.



[26, 27, 28. *The German Short Story*]

Kleist, Ludwig, Storm, C. F. Meyer, Keller, Rosegger. A study of the origin of the short story and its development in the nineteenth century, with frequent references to its chief representatives in France, England, and America. Lectures in German; oral and written reports in German.

Three hours. Through the year. Elective for students who have credit for 2 or 5. Each term may be elected independently. Not offered in 1909-10.

29, 30, 31. *The German Drama of the Nineteenth Century*

Kleist, Grillparzer, Hebbel, Hauptmann, and Sudermann. A study of the development of the German drama from waning romanticism to realism, with frequent references to the chief representatives of the modern drama in other countries. *Professor CROWELL.*

Three hours. Through the year. Elective for students who have credit for 5, 6, or 7. Each term may be elected independently. *Mon., Th., Fri., at 9.20.*

[32. *Lessing and Schiller*]

A study of the life and representative works of each author and the problems they present. *Professor CROWELL.*

Three hours. Through the year. Elective for students who have credit for 5 or 7. Not offered in 1909-10.

[10. *Goethe's Faust: Parts 1 and 2*]

With some notice of recent dramas of kindred interest. *Professor CROWELL.*

Three hours. Through the year. Elective for students who have credit for 5 or 7. Not offered in 1909-10.

33, 34, 35. *Goethe: A Study of His Life and Works*

Lectures in German; reports on assigned topics; extensive reading. *Professor VON KLENZE.*

Three hours. Through the year. Elective for students who have credit for 7, 10, 14, 25, 28, 31, 32. *Tu., Th., Fri., at 4.20.*

[12, 13, 14. *Outline History of German Literature*]

Aims to acquaint the student with the most important movements in the evolution of German literary life. Lectures in German; reports on assigned topics; extensive reading. *Professor VON KLENZE.*

Three hours. Through the year. Elective for students who have credit for 7, 10, 25, 28, 31, 32, 35. Not offered in 1909-10.

[16. *Gothic and Old High German*]

The Gothic language, with reading of extracts in Streitberg's *Gotisches Elementarbuch* or Braune's *Gotische Grammatik*, Braune's *Althochdeutsche Grammatik* and *Althochdeutsches Lesebuch*. Professor CROWELL. Three hours. Through the year. Elective for Graduates. Not offered in 1909-10.

17. *Germanic Mythology*

Primitive Germanic religion, customs, and ideas, in their relations to German literature. Discussions based on E. Mogk's *Germanische Mythologie*. Professor CROWELL.

One hour. Through the year. Elective for Juniors, Seniors, and Graduates. Mon. at 3.20.

20. *Old Norse*

Holthausen's *Altisländisches Elementarbuch*; Wilken's *Prosaische Edda*; *Die Lieder der Edda*, edited by Sijmons and Gering. Professor CROWELL.

Two hours. Through the year. Elective for Graduates. Students electing Old Norse should also take Germanic Mythology. Tu., Th., at 12.20.

15. *Middle High German*

The language of the Middle High German period, including an introduction to Germanic philology. Michel's *Mittelhochdeutsches Elementarbuch*; *Das Nibelungenlied*. Professor VON KLENZE.

Three hours. Through the year. Elective for students who have credit for 7, 10, 14, or 16. Tu., Th., Fri., at 3.20.

36. *Seminary in German Literature*

Aims to give training in modern methods of investigation and criticism. To be conducted in German. Subject for 1909-10: The German short story of the nineteenth century. Professor VON KLENZE.

Three hours. One session weekly. Through the year. Elective for approved students.

[50. *The Classical Literature of Germany in English*]

A study of Lessing, Schiller, and Goethe, by means of English translations, in the light of the German culture of the eighteenth century, with supplementary lectures on the German drama of the nineteenth century. Professor VON KLENZE.

Three hours. Second term. Elective for Sophomores and Juniors who have taken French 50. Not offered in 1909-10.

## XII. GREEK LITERATURE AND HISTORY†

JAMES IRVING MANATT, PH.D., LL.D., *Professor of Greek Literature and History*

FRANCIS GREENLEAF ALLINSON, PH.D., *David Benedict Professor of Classical Philology*

DAVID WILKINSON SMITH, A.M., *Assistant in Greek*

A, B, C. *Elementary Course*

Designed to cover as much as possible of the entrance requirements in Greek, and thus to enable a student to take 1, 2, and 3 in the following year if he completes by private study before the opening of the first term the entire requirement in the *Anabasis*, and before the opening of the third term the entire requirement in Homer. Mr. SMITH. Three hours. Through the year. Elective for students who did not present elementary and advanced Greek for admission. *Tu., Th., Sat., at 12.20.*

3. *Lysias*

Selections from Lysias; selections for sight reading from Herodotus. Professor ALLINSON.

Three hours. First term. Elective for students who presented elementary and advanced Greek for admission, or who have credit for Greek A, B, C and have done the additional work indicated above. *Tu., Th., Sat., at 12.20.*

1. *Plato*

Plato's *Apology* and *Crito*, with selections from the *Phaedo*. Professor ALLINSON.

Three hours. Second term. Elective for students who have credit for 3. *Tu., Th., Sat., at 12.20.*

2. *Homer*

The *Odyssey*, four books; rapid reading of other books; lectures on the life of the Heroic Age as revealed in the poems and illustrated by recent archaeological research. Professor MANATT.

Three hours. Third term. Elective for students who have credit for 1. *Tu., Th., Sat., at 12.20.*

35. *Greek Historians*

Selections from Herodotus, Thucydides, and Xenophon, with a general review of Greek History. Professor MANATT.

Three hours. First term. Elective for Sophomores. *Mon., Wed., Th., at 10.20.*

† Courses 3, 1, 2 are a prerequisite for the more advanced courses in this department.

4. *Lucian*

Selected writings. *Professor ALLINSON.*

Three hours. Second term. Elective for Sophomores. *Mon., Wed., Th., at 10.20.*

6. *Dramatic Poets*

Lectures on the Greek drama. The *Prometheus* of Aeschylus; the *Oedipus Tyrannus* of Sophocles. *Professor ALLINSON.*

Three hours. Third term. Elective for Sophomores. *Mon., Wed., Th., at 10.20.*

8. *Homer*

Advanced course in the *Iliad* or the *Odyssey*, intended to serve as an introduction to prehistoric archaeology and as a preparation for teaching Homer. *Professor MANATT.*

Three hours. First term. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.20.*

7. *Plato and Aeschylus*

*Republic*, book x; selections from books I-IX; *Agamemnon*. *Professor ALLINSON.*

Three hours. Second term. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.20.*

9. *Theocritus and Herondas*

Twenty *Idylls* of Theocritus and selected *Mimes* of Herondas. *Professor MANATT.*

Three hours. Third term. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.20.*

[10. *The Drama*]

The *Medea* of Euripides and the *Frogs* of Aristophanes, with rapid reading of the *Seven against Thebes* of Aeschylus for literary criticism. *Professor ALLINSON.*

Three hours. Third term. Elective for Juniors and Seniors. Not offered in 1909-10.

[11. *Herodotus*]

A study of Greek history to the beginning of the Athenian Empire. Collateral reading of Aeschylus' *Persae*; and (in translation) Plutarch's *Solon*, *Themistocles*, and *Aristides*. *Professor MANATT.*

Three hours. First term. Elective for Juniors and Seniors. Not offered in 1909-10.

[12. *Thucydides*]

The Rise and Fall of the Athenian Empire. Collateral reading of Aristophanes' *Acharnians* and *Knights*; and Plutarch's *Cimon*, *Pericles*, and *Alcibiades*. Professor MANATT.

Three hours. Second term. Elective for Juniors and Seniors. Not offered in 1909-10.

[13. *Lucian*]

Advanced course. Professor ALLINSON.

Three hours. First term. Elective for Juniors and Seniors. Not offered in 1909-10.

[14. *Aeschines and Demosthenes*]

Speeches on the Crown; study of the Macedonian period and of Athenian political life. Professor MANATT.

Three hours. Second term. Elective for Juniors and Seniors. Not offered in 1909-10.

[15. *Pindar*]

Select Odes. Professor MANATT.

Three hours. Third term. Elective for Juniors and Seniors. Not offered in 1909-10.

[16, 17, 18. *Homer*]

The *Odyssey*; portions of the *Iliad* and the *Hymns* in the original; the remainder of the poems in translation. Professor MANATT.

Three hours. Through the year. Elective for Juniors and Seniors. Not offered in 1909-10.

19, 20. *Greek Composition*

Professor ALLINSON.

One hour. Second and third terms. Elective for Sophomores, Juniors, and Seniors. *Fri. at 2.20.*

21, 22. *Modern Greek*

Introduction to the language; readings from living Greek authors and Greek newspapers. Professor MANATT.

One hour. Second and third terms. Elective for Sophomores, Juniors, and Seniors.



### 23, 24, 25. *Greek Seminary*

Subjects for 1909-10: Hesiod and the Homeric Hymns; the Greek Anthology; Isaeus and Greek historical inscriptions, or Comparative Philology (*see* Indo-European Philology 4). First and third terms, *Professor* MANATT. Second term, *Professor* ALLINSON.

One two-hour session weekly. Through the year. Elective for Graduates and approved Seniors.

### [26. *Attic Orators*]

*Professor* MANATT.

Two hours. First term. Elective for Graduates and approved Seniors. Not offered in 1909-10.

### [27, 28. *Homer and Mycenaean Archaeology*]

The Achillean books of the *Iliad* and the Ithacan books of the *Odyssey* studied in the light of recent archaeological discoveries. *Professor* MANATT.

Two hours. First and second terms. Elective for Graduates and approved Seniors. Not offered in 1909-10.

### [29. *Demosthenes*]

Private speeches, selected to illustrate the workings of Athenian institutions. *Professor* MANATT.

Three hours. First term. Elective for Graduates. Not offered in 1909-10.

### 30, 31, 32. *Hellenistic Greek*

Characteristics of Hellenistic Greek (ἡ κοινή). The *Apologies* of Justin Martyr, or selections from the *New Testament*. This course is the same as course 12 offered by the department of Biblical Literature and History. First and second terms, *Professor* FOWLER. Third term, *Professor* ALLINSON.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 2.20.*

### [33. *Greek Life*]

The private and public life of the Greeks studied in the light of their history, literature, and monuments. Manual, lectures, and prescribed reading, with frequent reports, written tests, and essays. No knowledge of Greek or Latin required. The course is continued in the second and third terms as Latin 28, 29. The three terms together constitute the course in the History of Greek and Roman Life and

Institutions, which alternates with Greek 34, Latin 30, and Indo-European Philology 1. *Professor* MANATT.

Three hours. First term. Elective for Freshmen and Sophomores. Not offered in 1909-10.

### 34. *Greek Literature*

A brief history of the literature of the Greeks from Homer to Theocritus, with study of the masterpieces in the best English translations. No knowledge of Greek or Latin required. The course is continued in the second and third terms as Latin 30 and Indo-European Philology 1. The three terms together constitute the course in Greek and Roman Literature and the History of Language, which alternates with Greek 33, Latin 28, 29. *Professor* ALLINSON.

Three hours. First term. Elective for Freshmen and Sophomores. *Mon., Tu., Th., at 11.20.*

## XIV. HISTORY ‡

WILLIAM MACDONALD, PH.D., LL.D., *Professor of History*

WILFRED HAROLD MUNRO, A.M., *Professor of European History*

### 1. *Medieval and Modern History of Europe*

A general survey of the history of western Europe from the time of the barbarian invasions to 1815. A narrative text-book supplemented by lectures, frequent written tests, and written reports and abstracts on assigned reading and topics for special investigation. *Professor* MACDONALD.

Three hours. Through the year. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy in either the Sophomore or the Junior year. *Mon., Tu., Th., at 2.20.*

### 2. *Spanish History*

Development of Spanish institutions, political and social; rise and greatness of Spain as a European power; its colonial system; its position with reference to the Reformation and the subsequent religious wars. *Professor* MUNRO.

Three hours. First term. Elective for Juniors, Seniors, and Graduates. *Tu., Fri., Sat., at 10.20.*

‡ The elective courses in History are regularly open only to those who have credit for 1; but, by special permission of the instructor, elective courses may be taken by Juniors who are at the same time taking 1.

### 3. *Islam and the Crusades*

Social and political conditions in Europe and the East at the beginning of the Crusades; organization and internal condition of Islam; effect of the Crusades on the thought, life, and political development of Europe. *Professor MUNRO.*

Three hours. Second term. Elective for Juniors, Seniors, and Graduates. *Tu., Fri., Sat., at 10.20.*

### 4. *Period of the Renaissance*

Preparation for the Renaissance in the intellectual and social life of Europe; spread of the revival; connection between the Renaissance and the Reformation; artistic and literary aspects of the movement. *Professor MUNRO.*

Three hours. First term. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

### 5. *Period of the Reformation*

Early movements of dissent from the Roman Church; the Protestant revolt in Germany, Switzerland, France, and England; the political and social aspects of the Reformation; the religious wars; the effect on religious belief and church organization. *Professor MUNRO.*

Three hours. Second term. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

### 6. *The French Revolution*

Rise and progress of the Revolution in France; political and social conditions in Europe 1789-1815; permanent results of the Revolution, particularly its effect on political thought and practice. *Professor MUNRO.*

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. *Tu., Fri., Sat., at 10.20.*

### 7. *European History since 1815*

Political development of the more important states and their diplomatic relations; the revolutions of 1830 and 1848; the free-trade movement in England; the achievement of Italian unity; the founding of the German Empire; the Franco-Prussian war; the Eastern question, etc. *Professor MUNRO.*

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

8, 9, 10. *English Constitutional and Political History to 1689*

Formation of the English constitution; establishment and growth of the church; relations with Scotland and Ireland; the Reformation; the Puritan Revolution. *Professor MUNRO.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. *Mon., Tu., Th., at 2.20.*

[11,12,13. *English Constitutional and Political History since 1689*]

Foreign relations; the development of party government and the cabinet system; the social and political changes of the nineteenth century. *Professor MUNRO.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. Each term may be elected independently. Not offered in 1909-10. To be offered in 1910-11.

14, 15, 16. *Seminary in European History*

Discussion of assigned subjects, reports of reading and investigation, and similar exercises. *Professor MUNRO.*

Three hours. One hour of class-room attendance. Through the year. Elective for Graduates. Each term may be elected independently.

19,20,21. *Constitutional and Political History of the United States*

An advanced course covering the period from 1783 to the present time. Intended primarily for students who wish to specialize in American history or who expect to study law. *Professor MACDONALD.*

Three hours. Two meetings a week. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., at 12.20.*

22, 23, 24. *Seminary in American History*

Designed to afford training in historical investigation and practice in the use of sources. The subjects vary from year to year, and are drawn from both the colonial and the constitutional periods. For 1909-10 the subjects are: First term, Early exploration and settlement of the West. Second term, The administrations of Monroe. Third term, The South during the Civil War. *Professor MACDONALD.*

Three hours. One hour of attendance. Through the year. Elective for Graduates and approved Seniors. The course should be preceded by 27, 28, 29, or 19, 20, 21, but by special permission it may be taken by students who are taking 27, 28, 29, or 19, 20, 21.

27, 28, 29. *American History*

A general course, covering the whole period from the beginnings of English colonization to the end of the Civil War. Lectures, supplemented by assigned reading, study of the texts of representative documents, and special reports. Intended as an introduction to the advanced courses in American history, and for students who wish only a general survey of the subject or who expect to teach history. *Professor* MACDONALD.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Wed., Fri., Sat., at 11.20.*

[25.\* *Principles of Historical Criticism and Research*]

The general principles of historical criticism and the literature of historical theory. Langlois and Seignobos's *Introduction to the Study of History* is used as a manual. *Professor* MACDONALD.

One hour. One term. Elective for Graduates of one year's standing. Required of all candidates for the degree of Doctor of Philosophy in History. Not offered in 1909-10.

XV. INDO-EUROPEAN PHILOLOGY

FRANCIS GREENLEAF ALLINSON, PH.D., *David Benedict Professor of Classical Philology*

1. *General Introduction to the Study of Language*

Outline of the history of language; the Indo-European family. Adapted for students of ancient or modern languages. A continuation of Greek 34, Latin 30. The three terms together constitute the course in Greek and Roman Literature and the History of Language. Three hours. Third term. Elective for Freshmen and Sophomores. *Mon., Tu., Th., at 11.20.*

4. *Seminary in Comparative Philology*

For advanced students in Greek and Latin.

One two-hour session weekly. Third term. Elective for Graduates and approved Seniors.

7, 8, 9. *Sanskrit, elementary course*

Whitney's *Grammar*; Lanman's *Reader*; selections from the *Vedic Hymns*.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates.



[10, 11, 12. *Sanskrit, advanced course*]

*Vedic Hymns*, and other selections.

One hour. Through the year. Elective for students who have credit for 7, 8, 9.  
Not offered in 1909-10.

## XVI. MATHEMATICS†

NATHANIEL FRENCH DAVIS, A.M., LL.D., *Professor of Pure Mathematics*

HENRY PARKER MANNING, Ph.D., *Associate Professor of Pure Mathematics*

ROLAND GEORGE DWIGHT RICHARDSON, Ph.D., *Assistant Professor of Pure Mathematics*

CLINTON HARVEY CURRIER, A.M., *Instructor in Mathematics*

RAYMOND CLARE ARCHIBALD,† Ph.D., *Instructor in Mathematics*

ALLAN BENTON MORTON, A.M., *Instructor in Mathematics*

### 3. *Algebra*

*Professors MANNING and RICHARDSON, Messrs. CURRIER and MORTON.*

Four hours. First term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission. *Tu., Wed., Fri., Sat., one division at 8, the others at 9.20.*

### 1. *Solid and Spherical Geometry*

*Professors MANNING and RICHARDSON, Messrs. CURRIER and MORTON.*

Four hours. Second term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission. *Tu., Wed., Fri., Sat., one division at 8, the others at 9.20.*

### 2. *Trigonometry*

*Professors DAVIS, MANNING, and RICHARDSON, Mr. MORTON.*

Four hours. Third term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented only Plane Geometry for admission. *Tu., Wed., Fri., Sat., one division at 8, the others at 9.20.*

† The Undergraduate courses 1-11 should be taken in the order in which they are printed. Courses 12, 13, 14 may be taken at any time after the Freshman year. Courses 17-21 are designed for students who are taking or who intend to take engineering courses. Courses 22-26 are designed for Graduates: two or three of these courses are offered each year according to the needs of the students. For those who have taken all of them, other courses can usually be arranged.

† On leave of absence during the academic year 1909-10.

#### 4. *Analytic Geometry*

Professor DAVIS and Mr. CURRIER.

Three hours. First and second terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have credit for 1, 2, 3. *Mon., Wed., Fri., at 12.20.*

#### 5. *Differential and Integral Calculus*

Professor DAVIS and Mr. CURRIER.

Three hours. Third term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. Elective for students who have credit for 4. *Mon., Wed., Fri., at 12.20.*

#### 6, 7, 8. *Differential and Integral Calculus*

A continuation of 5. Mr. CURRIER.

Three hours. Through the year. Elective for students who have credit for 5. *Tu., Th., Sat., at 12.20.*

#### 9, 10, 11. *Differential Equations*

Professor MANNING.

Three hours. Through the year. Elective for students who have credit for 6 or 21. First term required of candidates for the degree of Bachelor of Science in Electrical Engineering. *Mon., Wed., Fri., at 8.*

#### [12. *Determinants and Theory of Equations*]

Three hours. Second term. Elective for students who have credit for 3 or 16. Not offered in 1909-10.

#### 13. *Modern Methods of Analytic Geometry*

Professor MANNING.

Three hours. Third term. Elective for students who have credit for 4 or 19.

#### [14. *Solid Analytic Geometry*]

Professor MANNING.

Three hours. Third term. Elective for students who have credit for 4 or 19. Not offered in 1909-10.

#### 15. *Spherical Trigonometry*

Professor MANNING.

One hour. First term. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane

Trigonometry for admission. Elective for students who have credit for 2 and who have not taken Spherical Trigonometry. *Mon., Th., at 9.20.*

### 16. *Algebra*

*Professor MANNING.*

One hour, first term. Two hours, second and third terms. Required of candidates for the degree of Bachelor of Arts or Bachelor of Philosophy who presented Solid Geometry and Plane Trigonometry for admission. *Mon., Th., at 9.20.*

### 17. *Algebra*

*Professor DAVIS, Messrs. CURRIER and MORTON.*

Six hours. First term. Required of candidates for the degree of Bachelor of Science. *Mon., Tu., Wed., Th., Fri., Sat., one division at 12.20, the others at 11.20.*

### 18. *Plane and Spherical Trigonometry*

*Professor DAVIS, Messrs. CURRIER and MORTON.*

Six hours. Second term. Required of candidates for the degree of Bachelor of Science. *Mon., Tu., Wed., Th., Fri., Sat., one division at 12.20, the others at 11.20.*

### 19. *Analytic Geometry*

*Professor DAVIS, Messrs. CURRIER and MORTON.*

Six hours. Third term. Required of candidates for the degree of Bachelor of Science. *Mon., Tu., Wed., Th., Fri., Sat., one division at 12.20, the others at 11.20.*

### 20. *Differential Calculus*

*Professors DAVIS and RICHARDSON, Mr. CURRIER.*

Five hours. First term. Required of candidates for the degree of Bachelor of Science. *One division, Tu., Wed., Th., Fri., Sat., at 9.20. Two divisions, Mon., Th., at 8; Tu., Fri., Sat., at 10.20.*

### 21. *Integral Calculus*

*Professor RICHARDSON and Mr. CURRIER.*

Three hours. Second and third terms. Required of candidates for the degree of Bachelor of Science. *One division, Tu., Wed., Sat., at 9.20. Two divisions, Tu., Fri., Sat., at 10.20.*

### 22. *Theory of Functions*

*Professor MANNING.*

Three hours. Through the year. Elective for Graduates and approved Seniors.

[23. *Differential Equations, advanced course*]

Professor MANNING.

Three hours. Through the year. Elective for Graduates who have credit for 22.  
Not offered in 1909-10.

24. *Advanced Algebra*

Professor RICHARDSON.

Three hours. Through the year. Elective for Graduates and approved Seniors.

[25. *General Theory of Curves and Surfaces*]

Professor MANNING.

Three hours. Through the year. Elective for Graduates and approved Seniors.  
Not offered in 1909-10.

[26. *Quaternions and allied subjects*]

Professor MANNING.

Three hours. Through the year. Elective for Graduates and approved Seniors.  
Not offered in 1909-10.

## XVII. MECHANICAL ENGINEERING†

WILLIAM HERBERT KENERSON, M.E., A.M., *Associate Professor of Mechanical Engineering*

THURSTON MASON PHETTEPLACE, PH.B., M.E., *Assistant Professor of Mechanical Engineering*

HENRY DEWEES CADY, *Instructor in Shop Practice*

GEORGE THOMAS HUXFORD, Sc.B., *Assistant in Mechanical Engineering*

1, 2, 3. *Wood-work*

Exercises in carpentry, wood-turning, and pattern-making. Mr. CADY.  
Three hours in any term. Seven hours of attendance. Elective for Sophomores, Juniors, and Seniors, who have had instruction in drawing. *Tu. 2.20 to 5.20; Fri. 2.20 to 6.20.*

4, 5, 6. *Metal-work*

Exercises in chipping and filing; the use of machine tools; forging and hardening tools, etc. Mr. CADY.

† All the courses in this department are required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Courses 1-6 are all elective for Sophomores, Juniors, and Seniors, but not more than two of them may be counted towards the degree of Bachelor of Arts or Bachelor of Philosophy.

Three hours in any term. Seven hours of attendance. Elective for Sophomores, Juniors, and Seniors, who have had instruction in drawing. *Wed. 2.20 to 5.20; Fri. 2.20 to 6.20.*

### 8. *Kinematics*

Velocity ratios, rolling surfaces, cams, and belting. Recitations, drawing, and the solution of problems. *Professor PHETTEPLACE.*

Three hours. Seven hours of attendance. Third term. Elective for students who have credit for Mechanical Drawing 5. *Tu. 12.20 to 1.20, 2.20 to 5.20; Fri. 2.20 to 5.20.*

### 9, 10, 11. *Kinematics*

Gearing, linkwork, parallel motions, and gear trains; machine tools; the application of the principles involved. Recitations, drawing, and the solution of problems. *Professor PHETTEPLACE.*

Three hours. Seven hours of attendance. Through the year. Elective for students who have credit for 8 and for Mechanical Drawing 5. *Mon. 2 to 6; Th. 2.20 to 5.20.*

### 12, 13, 14, 15. *Machine Design*

Applications of the principles of mechanics and the strength of materials to the design of representative types of boilers, engines, and various mechanisms; solution of problems illustrating the method of designing bolts and nuts, keys, journals and bearings, fly-wheels, valve gears, etc. Lectures, calculation, and drawing. *Professor PHETTEPLACE.*

Three hours. Six hours of attendance. First, second, third, and third terms. Elective for students who have credit for 8, 9, 10, 11 and Mechanics 1. *Mon., Th., 10.20 to 1.20.*

### 16, 17, 18. *Thermodynamics*

Applications of the principles of gases and vapors to steam, gas, and other heat engines, air-compressors, refrigerating apparatus, etc.; discussion of the energy of fuel and the utilization of such energy for power purposes by means of various media; laws of the relation of variations of pressure, temperature, and volume of such media; analysis of the various cycles used in heat engines; the principles of the injector and the ejector. *Professor KENERSON and Mr. HUXFORD.*

Three hours. Through the year. Elective for students who have credit for Physics 1, 2, 3. *Tu., Wed., Sat., at 9.20.*



### 19, 20, 21. *Engineering Practice*

Applications of the principles of thermodynamics and mechanics to the production, transmission, utilization, and measurement of power; valves and valve gears, and valve setting; indicator practice and tests of various forms of steam engines, gas engines, etc.; standardization of auxiliary apparatus used in making the various tests; boiler testing; flue gas and fuel analysis, etc. Lectures, recitations, and laboratory work. *Professor KENERSON and Mr. HUXFORD.*

Three hours. Through the year. Elective for students who have taken or are taking 16, 17, 18. *Tu., Fri., Sat., at 11.20; Tu. 2.20 to 4.20.*

### 22. *Materials of Engineering*

Study of the sources, manufacture, and properties of the important materials used in engineering; laboratory tests to determine the behavior of materials when subjected to tensile, compressive, and torsional stresses; mixing and testing of cements and mortars; preparation and examination of sections for the microscopical study of the structure of metals and alloys. Lectures, recitations, and laboratory work. *Professor KENERSON and Mr. HUXFORD.*

Three hours. First and second terms. Elective for students who have taken Mechanics 3. *Wed., Fri., at 10.20. 1st div. Mon. 2.20 to 4.20; 2d div. Tu. 2.20 to 4.20; 3d div. Th. 2.20 to 4.20; 4th div. Mon. 9.20 to 11.20.*

### 23. *Power Plant Engineering*

Discussion of the relation and coördination of the various parts of the complete power plant; management, and methods of determining efficiency; selection of the best equipment from manufacturers' catalogues and actual inspection. Lectures, recitations, tests, and tours of inspection. *Professor PHETTEPLACE.*

Three hours. First term. Elective for students who have credit for 19, 20, 21. *Wed., Fri., 2.20 to 5.20.*

### 24. *Advanced Laboratory Course*

Investigation of special problems in hydraulic and steam engineering. Determination of experimental constants for the Venturi meter, flow of water over weirs and through pipes, flow of air, steam, etc. Particular emphasis laid on preparation and form of reports. *Professor KENERSON and Mr. HUXFORD.*

Three hours. Second term. *Wed., Fri., 2 to 5.*

### 25. *Thesis*

A thesis is required of all candidates for the degree of Bachelor of Science in Mechanical Engineering. The thesis must embody a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

## XVIII. MECHANICS AND MECHANICAL DRAWING

OTIS EVERETT RANDALL, PH.D., *Professor of Mechanics and Mechanical Drawing*

ANSEL BROOKS, PH.B., M.E., *Associate Professor of Mechanics and Mechanical Drawing*

WILLIAM ARTHUR KENNEDY, PH.B., SC.B., *Instructor in Mechanical Drawing*

### MECHANICS

#### 1. *Mechanics of Solids*

Statics, including resolution and composition of forces, determination of center of gravity, and problems relative to rigid bodies and flexible cords; dynamics, including rectilinear and curvilinear motion, virtual velocity, moment of inertia, work, energy and power, and friction; strength of materials, including tension, compression, shearing, torsion, flexure, and arches; methods of graphical solution of problems. *Professors RANDALL and BROOKS.*

Three hours. Through the year. Elective for students who have credit for Mathematics 4 and 5, and who have taken or are taking Mathematics 6. First and second terms required of all candidates for the degree of Bachelor of Science. *Mon., Tu., Th., at 11.20.*

#### 3. *Strength of Materials*

Tension, compression, shearing, torsion, flexure, arches, and graphical solution of problems. *Professors RANDALL and BROOKS.*

Six hours. Third term. Required of all candidates for the degree of Bachelor of Science. *Mon., Tu., Wed., Th., Fri., Sat., at 11.20.*

#### 2. *Mechanics of Fluids*

Hydrostatics; nature and use of instruments; flow through orifices, over weirs, through tubes, through pipes, in conduits, flow of rivers, water supply and water power, dynamic pressure of water, water wheels, turbines, pumps and pumping. *Professor RANDALL.*

Three hours. First and second terms. Required of all candidates for the degree of Bachelor of Science. Elective for students who have credit for 3. *Wed., Fri., Sat., at 11.20.*

#### 4. *Advanced Mechanics*

Comprehensive treatment of the principles of kinematics, statics, and kinetics; strength of materials; higher theoretical and practical problems. *Professor RANDALL.*

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 3.

### MECHANICAL DRAWING

#### 6. *Elementary Mechanical Drawing*

Nature, care, and use of drafting instruments; lettering; plane problem construction; curve tracing; elementary projection. *Professor BROOKS and Mr. KENNEDY.*

Two hours. Four hours of drawing. Through the year. Required in the Freshman year of candidates for the degree of Bachelor of Science. *Tu., Fri., 2.20 to 4.20; Wed. 2 to 6.*

#### 1. *Descriptive Geometry*

Discussion, proof, and graphic solution of problems relating to the point, line, and plane, line and surface generation and classification, surface tangency, intersections and developments; application of the principles of descriptive geometry in isometric drawing, shades and shadows and perspective, machine drawing, and practical engineering problems. *Professors RANDALL and BROOKS, Mr. KENNEDY.*

Three hours. Two hours of recitation and three hours of drawing. Through the year. Required in the Sophomore year of candidates for the degree of Bachelor of Science. Elective for students who have credit for 2 or 6. *Mon., Tu., Wed., Th., Fri., Sat., at 9.20; Tu., Fri., Sat., at 10.20.*

#### 2. *Elementary Mechanical Drawing*

Nature, care, and use of drafting instruments; plane problem construction; theory of orthographic and isometric projection. *Professor BROOKS and Mr. KENNEDY.*

Three hours. Six hours of drawing. First term. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy, and for all Sophomores, Juniors, and Seniors. *Mon., Wed., Th., at 10.20.*

### 3. *Descriptive Geometry*

Discussion, proof, and graphic solution of problems in descriptive geometry. *Professor Brooks and Mr. KENNEDY.*

Three hours. Two hours of recitation and two hours of drawing. Second and third terms. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy, and for Sophomores, Juniors, and Seniors who have credit for 2. *Mon., Wed., Th., at 10.20.*

### 4, 5. *Machine Drawing*

Study and representation of machine parts; the principles of elementary machine design; sketches, detail and assembly drawings of machines; practice in reading drawings. *Professor Brooks and Mr. KENNEDY.*

Three hours. One hour of recitation and eight hours of drawing. First and second terms. Required of candidates for the degree of Bachelor of Science in Mechanical Engineering or Electrical Engineering. Elective for students who have credit for 3. *Tu. at 12.20; Mon., Th., 2.20 to 5.20.*

### 8. *Mechanical Drawing, practical*

Intersections and developments; third quadrant projection; sketching and dimensioning; conventional methods of representing machine parts; detailing and assembling; exercises in reading drawings; architectural drawing, including the drawing of plans and elevations and the details of building construction. For students desiring to continue their course in drawing without taking the theoretical work of descriptive geometry. *Professor Brooks and Mr. KENNEDY.*

Three hours. Six hours of drawing. Second and third terms. Elective for students who have credit for 2. *Mon., Wed., Th., at 10.20.*

## XIX. PHILOSOPHY

WILLIAM HERBERT PERRY FAUNCE, A.M., D.D., LL.D., *Professor of Moral and Intellectual Philosophy*

EDMUND BURKE DELABARRE, Ph.D., *Professor of Psychology*

WALTER GOODNOW EVERETT, Ph.D., *Professor of Philosophy and Natural Theology*

ALEXANDER MEIKLEJOHN, Ph.D., *Professor of Logic and Metaphysics*

ARTHUR UPHAM POPE, A.M., *Instructor in Philosophy*

1. *Logic*

Aims, methods, and limitations of human thinking; a preparation for work in the sciences and in philosophy. First term, general introduction and formal logic. Second term, principles and methods of the natural sciences. Third term, relations of science to philosophy; philosophical interpretation and criticism of the results of science. *Professor MEIKLEJOHN and Mr. POPE.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Mon., Th., Fri., at 9.20.*

2. *Psychology, introductory course*

The main facts and laws of mental life, with particular attention to their arrangement in a scientific system. The course aims to provide a sound foundation for further acquaintance with this and allied subjects, for an improved judgment in dealing with many practical problems of life, and for beginning the study of philosophy. *Professor DELABARRE.*

Three hours. Through the year. Elective for Juniors and Seniors. *Wed., Fri., Sat., at 11.20.*

3. *Psychology, advanced course*

A seminary for the discussion of important and interesting questions in psychology. The course may be extended over several years if desired. In the first year are usually studied the problems of mental composition, of the relation of mind and body, and of the criteria for accepting evidence for the more unusual or apparently marvelous phenomena to which the name psychical research is ordinarily applied. Special problems for study are arranged with individual students who desire to pursue the subject for a longer period, or who have had more than one year of previous preparation. *Professor DELABARRE.*



Three hours. Through the year. Elective for Undergraduates and Graduates who have taken 2 or its equivalent.

4. *Experimental Psychology, introductory laboratory course*

Description of the main lines and results of experimental research; demonstrations by the instructor or the class; training in the use of apparatus and in careful scientific observation and measurement.

*Professor DELABARRE.*

Three hours. Six hours of attendance. Through the year. Elective for Juniors, Seniors, and Graduates, who have taken or are taking 2. Although essentially a year course, it may, by special arrangement with the instructor, be taken for a shorter period.

5. *Experimental Psychology, advanced laboratory course*

The aim is to study further the problems of experimental psychology, and, whenever possible, to make original contributions to scientific knowledge. The problems investigated vary and the course may be taken two or more years in succession. *Professor DELABARRE.*

One to six hours. Two to twelve hours of attendance. Through the year. Elective for students who have credit for 4. May be taken for more than six hours by Graduates.

6, 7, 8. *History of Philosophy*

The successive philosophical systems in their dialectical development and mutual relations; treatment not merely analytic and historical, but synthetic and constructive as well. First term, Greek philosophy. Second term, medieval and early modern philosophy. Third term, recent and contemporary philosophy. *Professor EVERETT.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

9, 10. *Theoretical Ethics*

Intended to aid in mastering the fundamental problems of life and character. First term, a discussion of the nature and relations of ethics and an outline of the history of the chief ethical systems. Second term, a critical study of the fundamental concepts of ethics with the aim of constructing a tenable theory of conduct. *Professor EVERETT.*

Three hours. First and second terms. Elective for Juniors, Seniors, and Graduates. *Tu., Wed., Sat., at 9.20.*

11. *Practical Ethics*

The application of ethical theory to the life of the individual, the

family, and the state. Discussion of current problems, personal, industrial, and social, from the ethical standpoint. *President FAUNCE*. Three hours. Third term. Elective for Juniors and Seniors. *Tu., Wed., Sat., at 9.20.*

### 12. *Philosophy of Religion*

A study of the nature of the religious consciousness and of the ultimate problems of religious belief. *Professor EVERETT*.

Three hours. Third term. Elective for Seniors and Graduates who have credit for one course in Philosophy. *Tu., Wed., Sat., at 9.20.*

### 13, 14, 15. *Philosophical Seminary*

Lectures, written reports, and discussions on the more difficult problems of philosophy. Subject for 1909-10: Ethical problems. *Professor EVERETT*.

Three hours. Through the year. Elective for Graduates.

### [16. *Kantian and Post-Kantian Philosophy*]

Kant's *Critique of Pure Reason* studied as a source of modern philosophical theories. *Professor MEIKLEJOHN*.

Three hours. Through the year. Elective for Seniors who have credit for 6, 7, 8, and for Graduates. Not offered in 1909-10.

### 17. *Metaphysics*

A seminary for the discussion of special problems in metaphysical theory. Reading, written reports, and discussions. *Professor MEIKLEJOHN*.

Three hours. Through the year. Elective for Seniors who have credit for 6, 7, 8, and for Graduates.

## XX. PHYSICS

CARL BARUS, PH.D., LL.D., *Hazard Professor of Physics*

ALBERT DEFOREST PALMER, JR., PH.D., *Associate Professor of Physics*

ARTHUR EUGENE WATSON, PH.D., *Assistant Professor of Physics*

ROBERT FRANKLIN FIELD, A.M., *Assistant in Physics*

### 1, 2, 3. *Elementary Physics*†§

First term, kinematics and dynamics. Second term, molecular

† Graduates taking courses 1, 2, 3, 4, 5, 6 are held responsible for all the demonstrations, or for the full equivalent of either Watson's or Daniel's *Principles of General Physics*.

§ Students who intend to teach physics should elect courses 1, 2, 3 ; 4, 5, 6 ; 7.

physics. Third term, electricity. Lectures, illustrated by experiments and the lantern; weekly written exercises corrected in detail by the instructors. Designed for those who have had little previous training in physics. *Professor BARUS.*

Three hours. Through the year. Elective for Undergraduates who have credit for Mathematics 1, 2, 3. *Mon., Wed., Th., at 10.20.*

#### 4, 5, 6. *Elementary Physics, continued*†§

First term, optics. Second term, acoustics, polarization of light. Third term, heat. Methods as in 1, 2, 3. *Professor BARUS.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors, who have credit for 1, 2, 3. *Tu., Fri., Sat., at 10.20.*

#### 7. *Physical Measurements*§

Elementary theory and practice of physical manipulation. Reports of experiments and solution of problems. *Professor PALMER and Mr. FIELD.*

Three hours. Six hours in the laboratory. Through the year. Elective for students who have credit for 1, 2, 3, or 4, 5, 6.

#### 8, 9, 10. *Mathematical Treatment of Dynamical Problems*||

Lectures. First term, discussion of the general principles of dynamics and the development of the general equations of motion. Second and third terms, application of these principles to special problems in thermodynamics and hydrodynamics. *Professor PALMER.*

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 7 and Mathematics 9.

#### 11, 12, 13. *Mathematical Theory of Electricity and Magnetism*||

Lectures. Includes a discussion of the more important problems of electrical science. *Professor PALMER.*

Three hours. Through the year. Elective for Graduates and Seniors who have credit for 7 and Mathematics 9.

#### 14, 15, 16. *Advanced Laboratory Course*

Special problems and reference to original sources for methods of solution. *Professors BARUS, PALMER, and WATSON.*

† Graduates taking courses 1, 2, 3, 4, 5, 6 are held responsible for all the demonstrations, or for the full equivalent of either Watson's or Daniel's *Principles of General Physics.*

§ Students who intend to teach physics should elect courses 1, 2, 3; 4, 5, 6; 7.

|| In determining which of the two courses 8, 9, 10, and 11, 12, 13, shall be offered in any given year, the preference of applicants will be considered.

Three or six hours. Six or twelve hours of attendance. Through the year. Elective for students who have credit for 7.

17, 18, 19. *Applied Harmonic Analysis and Applied Vector Analysis*†

Importance of Fourier's method shown by examples drawn from the analytical theory of heat, from elastics, alternating electricity, and elsewhere; treatment by the aid of spherical harmonics, Bessel functions, and Lamé functions; the chief theorems of vector analysis deduced and applied to dynamics, elastics, hydrodynamics, the electromagnetics of Maxwell and Hertz, and the electronic theory of Heaviside, Lorentz, and others. *Professor BARUS.*

Three hours. Through the year. Elective for Seniors and Graduates who have credit for 1, 2, 3 and Mathematics 6, 7, 8.

20, 21, 22. *Physics, advanced course*†

Lectures on dynamics, potential, elastics, hydrostatics, hydrodynamics, viscosity, capillarity, electrostatics, magnetism, electro-magnetism, thermo-electrics, induction, Fresnel's optics, the electromagnetic theory of light, thermal analytics, and thermodynamics. Completed in two years. *Professor BARUS.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates who have credit for Mathematics 6, 7, 8.

23. *Precision Measurements in Photometry, Electricity, and Magnetism*

*Professor PALMER.*

Three hours. Six hours in the laboratory. Through the year. Elective for students who have credit for 7 or 24 and Mathematics 6.

24. *Theory of Measurements*

Lectures on the theory and precision of measurements and on methods of taking, recording, and reducing observations; laboratory instruction in selected physical measurements. *Professor PALMER and Mr. FIELD.*

Three hours. One lecture and three hours in the laboratory. Through the year. Elective for students who have credit for 1, 2, 3 or 4, 5, 6 and Mathematics 6 or 21. *Mon. at 12.20.*

† In determining which of the two courses 17, 18, 19 and 20, 21, 22 shall be offered in any given year, the preference of applicants will be considered.

## ELECTRICAL ENGINEERING‡

*Professor WATSON and Mr. FIELD**1, 2, 3. General Course*

Methods of generating and utilizing electric currents, theory and working of dynamo-electric machinery.

Three hours. Elective for students who have taken or are taking Physics 7 or 29 and Mathematics 5 or 20. Those taking the course through the year attend two hours of lecture or recitation and one period (two hours) in the laboratory per week. For those taking but two terms, the laboratory practice is confined to one period in the second term. *Mon., Th., Fri., at 9.20*; laboratory assignments to be arranged with the instructor.

*4, 5, 6. Alternating Currents*

Mathematical and graphical treatment.

Three hours. Two hours of recitation and two hours of laboratory work. Through the year. Elective for students who have credit for 3 and who have taken or are taking Mathematics 9. *Mon., Th., at 10.20*; one laboratory period.

*7, 8, 9. Industrial Electricity*

First term, telephone and telegraph engineering. Second term, history of electrical engineering. Third term, design and calculation of direct current machinery, including actual drawing of electrical machinery in connection with Mechanical Engineering 11.

Three hours. Through the year. Not elective. To be taken with 1, 2, 3. First term, *Tu., Wed., Sat., at 9.20*. Second and third terms, *Tu., Fri., at 9.20*; *Sat. at 11.20*.

*11. Special Topics in Electrical Engineering I*

Design and calculation of alternating current machinery.

Three hours. Second term. Elective for students who have credit for 1, 2, 3. *Tu., Wed., Fri., at 10.20*. Must be taken with 12.

*12. Special Topics in Electrical Engineering II*

Central station design and equipment; systems of distribution.

Three hours. Second term. Elective for students who have credit for 1, 2, 3. *Tu., Fri., at 11.20*, and a third period for trips of inspection or special assignments of work. Must be taken with 11.

‡ All the courses in this department are required of candidates for the degree of Bachelor of Science in Electrical Engineering. Courses 1, 2, 3 are required of candidates for the degree of Bachelor of Science in Mechanical Engineering. Courses 1 and 2 are required of candidates for the degree of Bachelor of Science in Civil Engineering.



### 13. *Specific Electrical Engineering Problems*

Reading and discussion. Seminary method.

Three hours. Third term. Not elective. *Tu., Wed., Fri., at 10.20.*

### 14. *Thesis*

A thesis is required of all candidates for the degree of Bachelor of Science in Electrical Engineering. The thesis must embody a design or a review of an engineering plant, appliance, process, or structure, or the results of an experimental investigation.

## XXI. ROMAN LITERATURE AND HISTORY

ALBERT GRANGER HARKNESS, A.M., LITT.D., *Professor of Roman Literature and History*

JOHN FRANCIS GREENE, A.M., *Assistant Professor of Roman Literature and History*

### 1. *Livy*

Designed to enable the student to acquire facility in reading Latin, and to instruct him in the use of the Latin texts as a means of gaining a knowledge of Roman history; grammatical study and literary criticism also receive attention. *Professors HARKNESS and GREENE.*

Three hours. First term. Elective for students who presented elementary and advanced Latin for admission. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Th., Sat., at 12.20.*

### 2. *Cicero's Letters*

Aims and methods as in 1. *Professors HARKNESS and GREENE.*

Three hours. Second term. Elective for students who presented elementary and advanced Latin for admission. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Th., Sat., at 12.20.*

### 3. *Tacitus' Germania and Agricola*

Aims and methods as in 1. *Professors HARKNESS and GREENE.*

Three hours. Third term. Elective for students who presented elementary and advanced Latin for admission. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Th., Sat., at 12.20.*

### 4. *Horace's Odes and Epodes*

Critical study of the poems, supplemented by rapid reading with a view to comprehending the spirit of the author; the literary side of

the study is made prominent. Lectures; literary topics assigned to the class for special study. *Professor HARKNESS.*

Three hours. First term. Elective for Sophomores. *Mon., Wed., Fri., at 12.20.*

### 5. *Catullus, Tibullus, and Propertius*

Aims and methods as in 4. *Professor GREENE.*

Three hours. Second term. Elective for Sophomores. *Mon., Wed., Fri., at 12.20.*

### 6. *Satires of Horace*

Aims and methods as in 4. *Professor GREENE.*

Three hours. Third term. Elective for Sophomores. *Mon., Wed., Fri., at 12.20.*

### 7, 8, 9. *Latin Poetry*

Aims to give a connected and comprehensive view of the history and development of Latin poetry. Forms with 10, 11, 12 a two-year consecutive course affording a general survey of Roman literature. Lectures on the lives and writings of the authors; reading of characteristic selections; special study by members of the class of assigned topics in literary history and criticism. First term, Plautus. Second term, Lucretius. Third term, Juvenal and Martial. *Professors HARKNESS and GREENE.*

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. *Tu., Fri., Sat., at 10.20.*

### [10, 11, 12. *Latin Prose*]

Aims to give a connected and comprehensive view of the history and development of Latin prose. Forms with 7, 8, 9 a two-year consecutive course affording a general survey of Roman literature. Lectures on the lives and writings of the authors, on the development of oratory, etc.; reading of characteristic selections; special study by members of the class of assigned topics in literary history and criticism. First term, specimens of early Latin, Cicero's *Brutus*, and Quintilian. Second term, Cicero. Third term, the *Annals* of Tacitus. *Professors HARKNESS and GREENE.*

Three hours. Through the year. Elective for Juniors and Seniors. Each term may be elected independently. Not offered in 1909-10.

### 13, 14, 15. *Petronius, Pliny the Younger, Martial*

*Professor HARKNESS.*

One hour. Through the year. Elective for Juniors, Seniors, and Graduates. *Fri. at 2.20.*

[16, 17, 18. *Epigraphy*]

*Professor HARKNESS.*

Two hours. Through the year. Elective for Graduates and approved Undergraduates. Not offered in 1909-10.

22, 23, 24. *Latin Composition*

*Professor GREENE.*

One hour. Through the year. Elective for Sophomores, Juniors, and Seniors. *Mon. at 3.20.*

25, 26, 27. *Seminary in Latin*

Subject for 1909-10: Paleography and textual criticism. Reading from the prose of the Empire. Gudeman's *Latin Literature of the Empire*, vol. I. *Professors HARKNESS and GREENE.*

Two hours. Through the year. Elective for Graduates.

[28, 29. *Roman Life*]

The private and public life of the Romans. Intended to give a comprehensive view of the civilization of Rome. Study based on the monuments and literature. Lectures, supplemented by reading and reports. No knowledge of Latin required. A continuation of Greek 33, the three terms together constituting the course called the History of Greek and Roman Life and Institutions. *Professor GREENE.*

Three hours. Second and third terms. Elective for Freshmen and Sophomores. Not offered in 1909-10.

30. *Roman Literature*

A brief history of Roman literature. Some of the most important and characteristic works studied in English translations. No knowledge of Latin required. Follows Greek 34 and is continued in the third term by Indo-European Philology 1. *Professor HARKNESS.*

Three hours. Second term. Elective for Freshmen and Sophomores. *Mon., Tu., Th., at 11.20.*

31, 32, 33. *History of the Roman Empire*

First term, the Early Empire. Second term, the Age of the Antonines. Third term, the Age of Constantine. *Professor GREENE.*

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. Each term may be elected independently. *Tu., Wed., Sat., at 9.20.*

## XXII. ROMANCE LANGUAGES AND LITERATURES

COURTNEY LANGDON, A.B., *Professor of the Romance Languages and Literatures*

ALBERT BUSHNELL JOHNSON, A.M., *Associate Professor of the Romance Languages*

CHARLES HERMAN HUNKINS, A.B., *Instructor in French*

GILBERT CHINARD, B. ès L., L. ès L., *Instructor in French*

BENJAMIN LOUIS ANTOINE HÉNIN, B. ès L., LL.B., *Assistant in French*

### 1. *Elementary Course*

Grammar, composition, dictation, conversation; translation of selections from modern authors into idiomatic English. *Messrs. HUNKINS and CHINARD.*

Three hours. Through the year. Required of all students who did not present French for admission. *1st div. Tu., Th., Sat., at 8; 2d div. Tu., Wed., Sat., at 9.20; 3d div. Mon., Tu., Th., at 2.20.*

### 2, 3, 4. *Intermediate Course*

Reading of modern and classical authors. Review of grammar; composition and conversation based upon the texts read; dictation. *Messrs. HUNKINS and CHINARD.*

Three hours. Through the year. Required of all students who presented elementary French for admission. Elective for students who have credit for 1. *1st div. Wed., Fri., Sat., at 11.20; 2d div. Tu., Th., Fri., at 8; 3d div. Tu., Fri., Sat., at 10.20; 4th div. Mon., Th., Fri., at 9.20.*

### 5, 6, 7. *French Language and Literature*

An introduction to classical and modern French literature; composition; conversation based on the texts read; dictation. *Mr. HUNKINS.*

Three hours. Through the year. Elective for students who presented advanced French for admission. *Mon., Tu., Th., at 11.20.*

### 8, 9, 10. *French Literature, exclusive of the Drama, from 1800 to 1850*

Chateaubriand, Hugo, Lamartine, De Musset, De Vigny, Balzac, George Sand, and Gautier; abstracts, in French, of works read outside the class; sight reading a prominent feature. *Professor JOHNSON.*

Three hours. Through the year. Elective for students who have credit for 2, 3, 4 or 5, 6, 7. *Mon., Tu., Th., at 11.20.*

[11, 12, 13. *French Literature, exclusive of the Drama, since 1850*] Flaubert, the Goncourts, Daudet, Zola, Taine, Loti, and others; abstracts, in French, of works read outside the class; sight reading a prominent feature. *Professor JOHNSON.*

Three hours. Through the year. Elective for students who have credit for 2, 3, 4 or 5, 6, 7. Not offered in 1909-10.

#### 14. *Composition*

Practice in writing, speaking, and reading French. Most appropriately taken in connection with 5, 6, 7; 8, 9, 10; or 11, 12, 13. *Mr. HÉNIN.*

One hour. Through the year. Elective for students who have taken 2, 3, 4, or are taking 5, 6, 7. *Tu. at 8.*

#### [17, 18, 19. *Old French*]

The elements of Romance philology and an introduction to the literature of the Middle Ages in France.

Three hours. One session weekly. Through the year. Elective for approved Seniors and Graduates. Not offered in 1909-10.

#### [20, 21, 22. *French Literature, exclusive of the Drama, from 1600 to 1800*]

Pascal, Madame de La Fayette, La Fontaine, Boileau, Bossuet, Madame de Sévigné, Saint-Simon, Le Sage, Voltaire, Rousseau. *Professor JOHNSON.*

Three hours. Through the year. Elective for students who have credit for 10 or 13. Not offered in 1909-10.

#### 23, 24, 25. *The French Drama*

A course covering the history of the French drama. The classical school from Corneille to Beaumarchais and the romantic and realistic schools from Hugo to Rostand. Lectures in French. *Professor LANGDON.*

Three hours. Through the year. Elective for students who have credit for 7, 10, or 13. *Tu., Fri., Sat., at 10.20.*

#### [50. *Molière in English*]

A study of Molière's plays, by means of English translations, in the light of the French civilization of the seventeenth century. *Professor LANGDON.*



Three hours. First term. Elective for Sophomores and Juniors who also elect German 50 and English 50. Not offered in 1909-10.

26, 27, 28. *Modern Italian*

Grammar, composition, conversation, and rapid translation of modern authors. *Professor LANGDON.*

Three hours. Through the year. Elective for Juniors and Seniors, and for Sophomores not electing more than one other modern foreign language. *Mon., Th., Fri., at 9.20.*

[29, 30, 31. *Italian Literature from 1321 to 1800*]

Selections from Petrarch, Sacchetti, Tasso, Macchiavelli, and Goldoni, with a brief survey of the life and history of the times. *Professor LANGDON.*

Three hours. Through the year. Elective for students who have credit for 26, 27, 28. Not offered in 1909-10.

[32, 33, 34. *Classical Italian*]

Selections from Dante, Petrarch, Ariosto, and Tasso. *Professor LANGDON.*

Three hours. Through the year. Elective for students who have credit for 26, 27, 28. Not offered in 1909-10.

35, 36, 37. *Dante in English*

A study of the whole of the *Divina Commedia* in English, in the light of modern thought and in connection with other great world-poems. An introduction to a study of comparative literature by means of the best available translations. *Professor LANGDON.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 11.20.*

38, 39, 40. *Modern Spanish*

Grammar, conversation, composition, writing from dictation, and rapid reading. *Professor JOHNSON.*

Three hours. Through the year. Elective for Juniors, and for Sophomores not electing more than one other modern foreign language. *Tu., Fri., Sat., at 10.20.*

41, 42, 43. *Spanish Language and Literature*

Selected works of classical and modern authors; composition; conversation. *Professor JOHNSON.*

Three hours. Through the year. Elective for students who have credit for 38, 39, 40. *Mon., Wed., Th., at 10.20.*

## XXIII. SOCIAL AND POLITICAL SCIENCE†

GEORGE GRAFTON WILSON, PH.D., *Professor of Social and Political Science*

JAMES QUAYLE DEALEY, PH.D., *Professor of Social and Political Science*

LESTER FRANK WARD, A.M., LL.D., *Professor of Sociology*

CAROL ARONOVICI, S.A.B., LITT.B., *Assistant in Social Science*

## POLITICAL SCIENCE

1. *Political Science, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor WILSON.*

Three hours. First term. Sophomore, Junior, or Senior year. Required of candidates for the degree of Bachelor of Arts; elective for others. Followed by Economics 1. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Mon., Wed., Fri., at 12.20.*

2. *International Relations*

International law, diplomacy, and world-politics. *Professor WILSON.*

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Th., Fri., at 9.20.*

3, 4. *American Government* §

First term, constitution, organization, powers, and methods of the national system of government. Second term, organization and functions of the states and cities of the United States. Followed by 5 in the third term. *Professor DEALEY.*

Three hours. First and second terms. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Th., at 10.20.*

5. *Comparative Study of Constitutions* §

The constitutions of Germany, France, Great Britain, and Switzerland especially considered. *Professor DEALEY.*

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. *Mon., Wed., Th., at 10.20.*

† The courses in this department other than 1 are open only to those students who have credit for Political Science 1, Economics 1, and Social Science 1, which together constitute an introduction to the advanced work of the departments of Social and Political Science and Economics.

§ Courses 3, 4, 5, form a single course continuous through the year.

### 13. *The State*†

The origin, forms, development, functions, and institutions of the state. *Professor DEALEY.*

Three hours. First term. Followed in the second term by 8. Elective for Juniors, Seniors, and Graduates. *Tu., Fri., Sat., at 10.20.*

### 8. *Constitutional Law*‡

The principles and development of constitutional law, with special reference to the Constitution of the United States. *Professor DEALEY.*

Three hours. Second term. Followed in the third term by 7. Elective for Juniors, Seniors, and Graduates. *Tu., Fri., Sat., at 10.20.*

### 7. *Jurisprudence*‡

The fundamental principles of law and legal relations. *Professor WILSON.*

Three hours. Third term. Elective for Juniors, Seniors, and Graduates. *Tu., Fri., Sat., at 10.20.*

### 6. *Roman Law*§

The influence of Roman law on ancient and modern political institutions. *Professor WILSON.*

Three hours. One term. Offered if applied for by Graduates.

### 9. *The Latin-American Republics*§

The government and social conditions of the Latin-American Republics. *Professor DEALEY.*

Three hours. One term. Offered if applied for by Graduates.

### 10. *Political Parties*§

The development of political parties in the United States and Europe. *Professor WILSON.*

Three hours. One term. Offered if applied for by Graduates.

### 11. *Administration*§

The principles and the chief national systems of administration. *Professor WILSON.*

Three hours. One term. Offered if applied for by Graduates.

† Courses 13, 8, 7, form a single course continuous through the year.

§ Courses 6, 9-12, 14, 15, are primarily for Graduates, and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.

### 12. *Administration (continued)*†

Local and colonial administration. *Professor WILSON.*

Three hours. One term. Offered if applied for by Graduates.

### 14. *Development of Political Theory*†

The growth of important political ideas traced from Plato to the present time, with emphasis on the evolution of democracy. *Professor DEALEY.*

Three hours. One term. Offered if applied for by Graduates.

### 15. *Current Political Theory and Practice*†

A seminary course. Intended to train students in methods of estimating the value and significance of recent publications on political topics, and the changes consequent upon current political development. *Professors WILSON and DEALEY.*

One hour. Through the year. Elective for Graduates. *Mon. at 4.30.*

### 20, 21, 22. *Investigation of Special Topics*

Intended to train the student in methods of gathering, handling, and presenting data in the study of political problems. In connection with this course, work in comparative legislation may be taken under the direction of the Legislative Reference Bureau of the State Library. Laboratory methods. *Professors WILSON, DEALEY, and KIRK.*

Three hours. Six hours of attendance. Through the year. Elective for Graduates and for approved Juniors and Seniors.

## SOCIAL SCIENCE

### 1. *Social Science, elementary*

Affords a general outline of the subject, and serves as an introduction to the more extended and special courses which follow. *Professor DEALEY.*

Three hours. Third term. Sophomore, Junior, or Senior year. Must be preceded by Economics 1 and Political Science 1. Required of candidates for the degree of Bachelor of Arts; elective for others. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Mon., Wed., Fri., at 12.20.*

### 2. *Social Institutions, Conditions, and Problems*

Historical development of domestic, religious, and political institu-

† Courses 6, 9-12, 14, 15, are primarily for Graduates, and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.

tions; study of such social problems as charity, crime, intemperance, marriage and divorce, etc. First term, *Professor DEALEY*. Second and third terms, *Professor WILSON*.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Mon., Tu., Th., at 11.20.*

### 3. *Origin and Development of Society*†

The formation of human institutions and their subsequent modifications. *Professor WARD*.

Three hours. Through the year. Elective for Juniors, Seniors, and Graduates. *Tu., Th., Sat., at 12.20.*

### 4. *Social Philosophy*‡

The relation of sociology to other sciences, especially its psychic aspects, and the interpretation of social phenomena. *Professor WARD*.

Three hours. First and second terms. Followed in third term by Social Science 5. Elective for Seniors and Graduates. *Wed., Fri., Sat., at 11.20.*

### 5. *Application of Sociological Principles*‡

The utility of sociology as the basis of legislation and of the social art. The improvement of society through conscious effort. *Professor WARD*.

Three hours. Third term. Elective for Seniors and Graduates. *Wed., Fri., Sat., at 11.20.*

### 6. *Sociological Aspects of Education*§

The social importance of intellectual development and of the diffusion of knowledge. *Professor WARD*.

Three hours. Through the year at 4.30. Days to be arranged with class. Elective for Graduates. Alternates with 10.

### 7. *Current Social Theory and Practice*§

A seminary course. (See Political Science 15.) *Professors WILSON and DEALEY*.

One hour. Through the year. Elective for Graduates. *Mon. at 5.30.*

† Course 3 deals with the subject chiefly from the historical standpoint. Course 4 deals mainly with the principles and theory of sociology. Undergraduates should not elect both of these courses in the same year, and 3 should precede 4. Course 5 may properly follow either of these.

§ Courses 6-10 are primarily for Graduates, and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.



### 8. *Demography*†

Dispersion of races; social study of race characteristics; emigration, immigration, etc. *Professor WILSON.*

Three hours. One term. Offered if applied for by Graduates.

### 9. *Development of Social Theory*†

Traces important theories, ancient and modern, in regard to social conditions and development. *Professor DEALEY.*

Three hours. One term. Offered if applied for by Graduates.

### [10. *Sociological Theories of the Nineteenth Century and their Significance*]†

A review of modern sociological thought in Europe and America, and its influence on the life and institutions of society. *Professor WARD.*

Three hours. Through the year. Elective for Graduates. Alternates with 6. Not offered in 1909-10.

### 20, 21, 22. *Investigation of Special Topics*

Intended to train the student in methods of gathering, handling, and presenting data in the study of social problems. During the year 1909-10 a special investigation course on Municipal Conditions and Social Welfare, including a study of social statistics, is given by Carol Aronovici, Head of the Union Settlement. Laboratory methods. Under the direction of *Professors WILSON and KIRK.*

Three hours. Six hours of attendance. Through the year. Elective for Graduates and for not more than twelve Juniors and Seniors approved by the department.

## MUSIC

ARTHUR WARE LOCKE, A.B., *Instructor in Music*

### 1, 2, 3. *The Evolution of the Art of Music*

A general course in the history of music. Special attention to the compositions of the great masters of the eighteenth and nineteenth centuries and to the tendencies in the development of music at the present day. Lectures, illustrations on the piano, assigned readings, and papers. Designed to give power of appreciation and interpretation with the minimum of technical detail.

† Courses 6-10 are primarily for Graduates, and may be elected by those Undergraduates only who are approved by the department. These courses are given according to the needs of qualified applicants.

Three hours. Through the year. Elective for Sophomores, Juniors, and Seniors. *Mon., Wed., Th., at 10.20.*

#### 4, 5, 6. *Harmony*

A study of the fundamental principles of the theory of music. Study of intervals, of the different chords in their natural relations and combinations, of cadences, suspensions, passing and changing notes, organ-point, and modulation. Written exercises on given basses and the harmonization of melodies in three and four voices. *Modern Harmony*, by Foote and Spalding, is used as the basis of instruction. This course is designed particularly for those who, already familiar with the rudiments of music, wish to develop a more intelligent and technical understanding of the structure of music and the methods of composition. Members of the course must be able to play chord exercises (such as hymn-tunes) on the piano.

Three hours. Through the year. Elective for Juniors and Seniors. *Mon., Th., Fri., at 9.20.*

### PHYSICAL TRAINING

FREDERICK WILLIAM MARVEL, PH.B., *Professor of Physical Training*

From the close of the Thanksgiving recess to the end of the second term, all first and second year students are required to attend gymnasium exercises three times a week as follows:

FRESHMEN. *1st div. Tu., Fri., Sat., at 10.20; 2d div. Mon., Tu., Th., at 4.20.*

SOPHOMORES. *1st div. Mon., Wed., Th., at 10.20; 2d div. Tu., Th., Fri., at 3.20.*

A voluntary class for Juniors and Seniors will be held on *Mon., Tu., Th., Fri., at 5.10.* Classes in heavy gymnastics, under the direction of a special instructor, are held four afternoons a week. Classes in wrestling, under the direction of a special instructor, are held three afternoons a week. Instruction in swimming, under the direction of a special instructor, is given by appointment.

# TABLE OF ELECTIVE COURSES, 1909-10†

## FIRST TERM

|                            |                          |                               |
|----------------------------|--------------------------|-------------------------------|
| <i>Art</i>                 | <i>Botany</i>            | <i>Education</i>              |
| 1 Jr. Sr.                  | 1 Fr. So. Jr. Sr.        | 13 Gr.                        |
| 4 Jr. Sr.                  | 2 So. Jr. Sr. Gr.        | 16 Gr.                        |
| 8 Gr.                      | 6 Gr. Sr. Jr.            | <i>Electrical Engineering</i> |
| 10 Fr. So. Jr. Sr.         | <i>Chemistry</i>         | 1 So. Jr. Sr.                 |
| 11 So. Jr. Sr.             | 1 Fr. So. Jr. Sr.        | 4 Jr. Sr.                     |
| <i>Astronomy</i>           | 4 So. Jr. Sr.            | <i>English</i>                |
| 1 Jr. Sr.                  | 7 Jr. Sr. Gr.            | 2 So.                         |
| 4 Jr. Sr.                  | 10 Jr. Sr. Gr.           | 3 So. Jr. Sr.                 |
| 10 Gr. Sr.                 | 15 Gr.                   | 5 Jr. Sr.                     |
| 13 Gr. Sr.                 | 21 Gr.                   | 7 So. Jr. Sr.                 |
| <i>Biblical Literature</i> | 24 Jr. Sr. Gr.           | 9 Jr. Sr. Gr.                 |
| 1 Jr. Sr. Gr.              | 27 Jr. Sr. Gr.           | 10 Jr. Sr. Gr.                |
| 2 Sr. Gr.                  | 30 Gr.                   | 11 So.                        |
| 3 Gr. Sr.                  | 33 Gr. Sr.               | 14 So. Jr. Sr.                |
| 4 Gr.                      | 36 Gr. Sr.               | 15 Jr. Sr.                    |
| 5 Sr. Gr.                  | 41 Gr.                   | 18 Jr. Sr.                    |
| 6 Sr. Gr.                  | <i>Civil Engineering</i> | 19 So. Jr. Sr.                |
| 7 Jr. Sr. Gr.              | 4 So. Jr. Sr.            | 20 So. Jr. Sr.                |
| 14 So. Jr. Sr. Gr.         | 11 Jr. Sr.               | 22 Jr. Sr.                    |
| 21 So. Jr. Sr. Gr.         | 16 Jr. Sr.               | 23 Gr. Sr.                    |
| 15 Gr. Sr. Jr.             | 23 Sr.                   | <i>French</i>                 |
| <i>Biology</i>             | 25 Sr.                   | 2 Fr. So.                     |
| 1 Fr. So. Jr. Sr.          | 26 Sr.                   | 5 Fr. So. Jr. Sr.             |
| 2 So. Jr. Sr.              | <i>Economics</i>         | 8 So. Jr. Sr.                 |
| 4 Jr. Sr. Gr.              | 2 Jr. Sr.                | 14 Fr. So. Jr. Sr.            |
| 7 So. Jr. Sr.              | 3 Jr. Sr. Gr.            | 23 So. Jr. Sr.                |
| 9 Jr. Sr.                  | 5 Sr. Gr.                | <i>Geology</i>                |
| 10 Jr. Sr.                 | 6 Jr. Sr. Gr.            | 3 Fr. So. Jr. Sr.             |
| 11 Gr.                     | 10 Jr. Sr. Gr.           | 6 So. Jr. Sr. Gr.             |
| 12 Jr. Sr. Gr.             | 13 So. Jr. Sr.           | 1 So. Jr. Sr.                 |
| 13 Gr.                     | 20 Jr. Sr. Gr.           | 9 Jr. Sr. Gr.                 |
| 14 Gr.                     | <i>Education</i>         | 12 So. Jr. Sr.                |
| 15 Gr.                     | 1 Jr. Sr. Gr.            | 13 Gr. Sr.                    |
| 31 Gr.                     | 4 Sr. Gr.                | 14 Gr. Sr.                    |
| 32 Gr.                     | 7 Gr.                    | <i>German</i>                 |
| 34 Fr. So. Jr. Sr.         | 10 Gr.                   | 3 So. Jr. Sr.                 |

† Fr., So., Jr., Sr., Gr., indicate that the courses after which these abbreviations stand are open to Freshmen, Sophomores, Juniors, Seniors, or Graduate students, respectively.

*German*

6 Fr. So. Jr. Sr.  
 7 Fr. So. Jr. Sr.  
 29 So. Jr. Sr.  
 33 So. Jr. Sr.  
 17 Jr. Sr. Gr.  
 20 Gr.  
 15 So. Jr. Sr.  
 36 Sr. Gr.

*Greek*

A Fr. So. Jr. Sr.  
 3 Fr. So. Jr. Sr.  
 35 So.  
 8 Jr. Sr.  
 23 Gr. Sr.  
 30 Jr. Sr. Gr.  
 34 Fr. So.

*History*

2 Jr. Sr. Gr.  
 4 Jr. Sr. Gr.  
 8 Jr. Sr. Gr.  
 14 Gr.  
 19 Jr. Sr. Gr.  
 22 Gr. Sr.  
 27 Jr. Sr. Gr.

*Indo-European Philo-*

7 Jr. Sr. Gr. [logy]

*Italian*

26 So. Jr. Sr.  
 35 Jr. Sr. Gr.

*Latin*

1 Fr. So. Jr. Sr.  
 4 So. Jr. Sr.  
 7 Jr. Sr.  
 13 Jr. Sr. Gr.  
 22 So. Jr. Sr.  
 25 Gr.  
 31 So. Jr. Sr.

*Mathematics*

4 So. Jr. Sr.  
 6 So. Jr. Sr.  
 9 Jr. Sr.  
 15 So. Jr. Sr.  
 22 Gr. Sr.  
 24 Gr. Sr.

*Mechanical Drawing*

1 So. Jr. Sr.  
 2 Fr. So. Jr. Sr.  
 4 So. Jr. Sr.

*Mechanical Engineering*

1-6 So. Jr. Sr.  
 9 Jr. Sr.  
 12 Sr.  
 16 Jr. Sr.  
 19 Jr. Sr.  
 22 Sr.  
 23 Sr.

*Mechanics*

1 So. Jr. Sr.  
 2 Jr. Sr.  
 4 Sr. Gr.

*Music*

1 So. Jr. Sr.  
 4 Jr. Sr.

*Philosophy*

1 So. Jr. Sr.  
 2 Jr. Sr.  
 3 Sr. Gr.  
 4 Jr. Sr. Gr.  
 5 Sr. Gr.  
 6 Jr. Sr. Gr.  
 9 Jr. Sr. Gr.  
 13 Gr.  
 17 Sr. Gr.

*Physics*

1 So. Jr. Sr.

*Physics*

4 Jr. Sr.  
 7 Jr. Sr.  
 8 Sr. Gr.  
 11 Gr. Sr.  
 14 Sr. Gr.  
 17 Sr. Gr.  
 20 Jr. Sr. Gr.  
 23 Sr. Gr.  
 24 Jr. Sr. Gr.

*Political Science*

1 So. Jr. Sr.  
 2 Jr. Sr. Gr.  
 3 Jr. Sr. Gr.  
 13 Jr. Sr. Gr.  
 6 Gr.  
 9 Gr.  
 10 Gr.  
 11 Gr.  
 12 Gr.  
 14 Gr.  
 15 Gr.  
 20 Gr. Jr. Sr.

*Sanskrit*

7 Jr. Sr. Gr.

*Social Science*

2 Jr. Sr. Gr.  
 3 Jr. Sr. Gr.  
 4 Sr. Gr.  
 6 Gr.  
 7 Gr.  
 8 Gr.  
 9 Gr.  
 20 Gr. Sr. Jr.

*Spanish*

38 So. Jr.  
 41 Jr. Sr.

## SECOND TERM

*Art*

2 Jr. Sr.  
 5 Jr. Sr.  
 8 Gr.

*Art*

10 Fr. So. Jr. Sr.  
 11 So. Jr. Sr.

*Astronomy*

2 Jr. Sr.  
 5 Jr. Sr.  
 11 Gr. Sr.

*Astronomy*

14 Gr. Sr.

*Biblical Literature*

1 Jr. Sr. Gr.

2 Sr. Gr.

3 Gr. Sr.

4 Gr.

5 Sr. Gr.

6 Sr. Gr.

8 Jr. Sr. Gr.

19 So. Jr. Sr. Gr.

22 So. Jr. Sr. Gr.

15 Gr. Sr. Jr.

*Biology*

1 Fr. So. Jr. Sr.

2 So. Jr. Sr.

5 Jr. Sr. Gr.

7 So. Jr. Sr.

9 Jr. Sr.

10 Jr. Sr.

11 Gr.

12 Jr. Sr. Gr.

13 Gr.

14 Gr.

15 Gr.

30 Fr. So. Jr. Sr.

31 Gr.

32 Gr.

*Botany*

1 Fr. So. Jr. Sr.

2 So. Jr. Sr. Gr.

6 Gr. Sr. Jr.

*Chemistry*

2 Fr. So. Jr. Sr.

5 So. Jr. Sr.

8 Jr. Sr. Gr.

11 Jr. Sr. Gr.

16 Gr.

22 Gr.

25 Jr. Sr. Gr.

28 Jr. Sr. Gr.

31 Gr.

34 Gr. Sr.

*Chemistry*

37 Gr. Sr.

42 Gr.

*Civil Engineering*

5 So. Jr. Sr.

8 So. Jr. Sr.

9 So. Jr. Sr.

12 Jr. Sr.

14 Jr. Sr.

27 Sr.

29 Sr.

30 Sr.

31 Sr.

*Economics*

1 So. Jr. Sr.

2 Jr. Sr.

3 Jr. Sr. Gr.

5 Sr. Gr.

7 Jr. Sr. Gr.

11 Jr. Sr. Gr.

13 So. Jr. Sr.

21 Jr. Sr. Gr.

*Education*

2 Jr. Sr. Gr.

5 Sr. Gr.

8 Gr.

11 Gr.

14 Gr.

17 Gr.

*Electrical Engineering*

2 So. Jr. Sr.

5 Jr. Sr.

11 Jr. Sr.

12 Jr. Sr.

*English*

2 So.

3 So. Jr. Sr.

6 Jr. Sr.

7 So. Jr. Sr.

9 Jr. Sr. Gr.

10 Jr. Sr. Gr.

11 So.

14 So. Jr. Sr.

*English*

15 Jr. Sr.

18 Jr. Sr.

19 So. Jr. Sr.

20 So. Jr. Sr.

22 Jr. Sr.

23 Gr. Sr.

*French*

3 Fr. So.

6 Fr. So. Jr. Sr.

9 So. Jr. Sr.

24 So. Jr. Sr.

14 Fr. So. Jr. Sr.

*Geology*

3 Fr. So. Jr. Sr.

6 So. Jr. Sr. Gr.

1 So. Jr. Sr.

8 Jr. Sr. Gr.

12 So. Jr. Sr.

13 Gr. Sr.

14 Gr. Sr.

*German*

4 So. Jr. Sr.

6 Fr. So. Jr. Sr.

7 Fr. So. Jr. Sr.

30 So. Jr. Sr.

34 So. Jr. Sr.

17 Jr. Sr. Gr.

20 Gr.

15 So. Jr. Sr.

36 Sr. Gr.

*Greek*

B Fr. So. Jr. Sr.

1 Fr. So. Jr. Sr.

4 So.

7 Jr. Sr.

19 So. Jr. Sr.

21 So. Jr. Sr.

24 Gr. Sr.

31 Jr. Sr. Gr.

*History*

3 Jr. Sr. Gr.

5 Jr. Sr. Gr.



*History*

9 Jr. Sr. Gr.  
15 Gr.  
20 Jr. Sr. Gr.  
23 Gr. Sr.  
28 Jr. Sr. Gr.

*Indo-European Philo-*

8 Jr. Sr. Gr. [logy]

*Italian*

27 So. Jr. Sr.  
36 Jr. Sr. Gr.

*Latin*

2 Fr. So. Jr. Sr.  
5 So. Jr. Sr.  
8 Jr. Sr.  
14 Jr. Sr. Gr.  
23 So. Jr. Sr.  
26 Gr.  
30 Fr. So.  
32 So. Jr. Sr.

*Mathematics*

4 So. Jr. Sr.  
7 So. Jr. Sr.  
10 Jr. Sr.  
22 Gr. Sr.  
24 Gr. Sr.

*Mechanical Drawing*

1 So. Jr. Sr.  
3 Fr. So. Jr. Sr.  
5 So. Jr. Sr.  
8 Fr. So. Jr. Sr.

*Mechanical Engineering*

1-6 So. Jr. Sr.  
10 Jr. Sr.  
13 Sr.  
17 Jr. Sr.  
20 Jr. Sr.  
22 Sr.  
24 Sr.

*Mechanics*

1 So. Jr. Sr.  
2 Jr. Sr.  
4 Sr. Gr.

*Music*

2 So. Jr. Sr.  
5 Jr. Sr.

*Philosophy*

1 So. Jr. Sr.  
2 Jr. Sr.  
3 Sr. Gr.  
4 Jr. Sr. Gr.  
5 Sr. Gr.  
7 Jr. Sr. Gr.  
10 Jr. Sr. Gr.  
14 Gr.  
17 Sr. Gr.

*Physics*

2 So. Jr. Sr.  
5 Jr. Sr.  
7 Jr. Sr.  
9 Sr. Gr.  
12 Gr. Sr.

*Physics*

15 Sr. Gr.  
18 Sr. Gr.  
21 Jr. Sr. Gr.  
23 Sr. Gr.  
24 Jr. Sr. Gr.

*Political Science*

2 Jr. Sr. Gr.  
4 Jr. Sr. Gr.  
8 Jr. Sr. Gr.  
6 Gr.  
9 Gr.  
10 Gr.  
11 Gr.  
12 Gr.  
14 Gr.  
15 Gr.  
21 Gr. Jr. Sr.

*Sanskrit*

8 Jr. Sr. Gr.

*Social Science*

2 Jr. Sr. Gr.  
3 Jr. Sr. Gr.  
4 Sr. Gr.  
6 Gr.  
7 Gr.  
8 Gr.  
9 Gr.  
21 Gr. Jr. Sr.

*Spanish*

39 So. Jr.  
42 Jr. Sr.

## THIRD TERM

*Art*

3 Jr. Sr.  
6 Jr. Sr.  
8 Gr.  
10 Fr. So. Jr. Sr.  
11 So. Jr. Sr.

*Astronomy*

3 Jr. Sr.  
12 Gr. Sr.  
15 Gr. Sr.

*Biblical Literature*

1 Jr. Sr. Gr.  
2 Sr. Gr.  
3 Gr. Sr.  
4 Gr.  
5 Sr. Gr.  
6 Sr. Gr.  
9 Jr. Sr. Gr.  
20 So. Jr. Sr. Gr.  
23 So. Jr. Sr. Gr.

*Biblical Literature*

15 Gr. Jr. Sr.

*Biology*

1 Fr. So. Jr. Sr.  
2 So. Jr. Sr.  
3 So. Jr. Sr.  
8 So. Jr. Sr.  
9 Jr. Sr.  
10 Jr. Sr.  
11 Gr.

*Biology*

12 Jr. Sr. Gr.  
 13 Gr.  
 14 Gr.  
 15 Gr.  
 16 Jr. Sr.  
 18 Fr. So. Jr. Sr.  
 31 Gr.  
 32 Gr.  
 33 So. Jr. Sr. Gr.

*Botany*

1 Fr. So. Jr. Sr.  
 2 So. Jr. Sr. Gr.  
 6 Gr. Sr. Jr.  
 7 Fr. So. Jr. Sr.

*Chemistry*

3 Fr. So. Jr. Sr.  
 6 So. Jr. Sr.  
 9 Jr. Sr. Gr.  
 12 Jr. Sr. Gr.  
 13 Sr. Gr.  
 14 Sr. Gr.  
 17 Gr.  
 23 Jr. Sr. Gr.  
 26 Jr. Sr. Gr.  
 29 Jr. Sr. Gr.  
 32 Gr.  
 35 Gr. Sr.  
 38 Gr. Sr.  
 43 Gr.

*Civil Engineering*

6 So. Jr. Sr.  
 10 So. Jr. Sr.  
 13 Jr. Sr.  
 15 Jr. Sr.  
 17 Sr.  
 18 Sr.  
 19 So. Jr. Sr.  
 24 Sr.  
 28 Sr.  
 34 Sr.  
 36 Sr.

*Economics*

2 Jr. Sr.  
 5 Sr. Gr.  
 8 Jr. Sr. Gr.  
 12 Jr. Sr. Gr.  
 13 So. Jr. Sr.  
 22 Jr. Sr. Gr.

*Education*

3 Jr. Sr. Gr.  
 6 Sr. Gr.  
 9 Gr.  
 12 Gr.  
 15 Gr.  
 18 Gr.

*Electrical Engineering*

3 So. Jr. Sr.  
 6 Jr. Sr.

*English*

2 So.  
 3 So. Jr. Sr.  
 6 Jr. Sr.  
 7 So. Jr. Sr.  
 9 Jr. Sr. Gr.  
 10 Jr. Sr. Gr.  
 11 So.  
 14 So. Jr. Sr.  
 15 Jr. Sr.  
 18 Jr. Sr.  
 19 So. Jr. Sr.  
 20 So. Jr. Sr.  
 22 Jr. Sr.  
 23 Gr. Sr.

*French*

4 Fr. So.  
 7 Fr. So. Jr. Sr.  
 10 So. Jr. Sr.  
 14 Fr. So. Jr. Sr.  
 25 So. Jr. Sr.

*Geology*

3 Fr. So. Jr. Sr.  
 6 So. Jr. Sr. Gr.  
 1 So. Jr. Sr.  
 11 Jr. Sr. Gr.

*Geology*

12 So. Jr. Sr.  
 13 Gr. Sr.  
 14 Gr. Sr.

*German*

5 So. Jr. Sr.  
 6 Fr. So. Jr. Sr.  
 7 Fr. So. Jr. Sr.  
 31 So. Jr. Sr.  
 35 So. Jr. Sr.  
 17 Jr. Sr. Gr.  
 20 Gr.  
 15 So. Jr. Sr.  
 36 Sr. Gr.

*Greek*

C Fr. So. Jr. Sr.  
 2 Fr. So. Jr. Sr.  
 6 So.  
 9 Jr. Sr.  
 20 So. Jr. Sr.  
 22 So. Jr. Sr.  
 25 Gr. Sr.  
 32 Jr. Sr. Gr.

*History*

6 Jr. Sr. Gr.  
 7 Jr. Sr. Gr.  
 10 Jr. Sr. Gr.  
 16 Gr.  
 21 Jr. Sr. Gr.  
 24 Gr. Sr.  
 29 Jr. Sr. Gr.

*Indo-European Philo-*

1 Fr. So. [logy]  
 9 Jr. Sr. Gr.  
 4 Gr. Sr.

*Italian*

28 So. Jr. Sr.  
 37 Jr. Sr. Gr.

*Latin*

3 Fr. So. Jr. Sr.  
 6 So. Jr. Sr.  
 9 Jr. Sr.  
 15 Jr. Sr. Gr.

*Latin*

24 So. Jr. Sr.

27 Gr.

33 So. Jr. Sr.

*Mathematics*

5 So. Jr. Sr.

8 So. Jr. Sr.

11 Jr. Sr.

13 So. Jr. Sr.

22 Gr. Sr.

24 Gr. Sr.

*Mechanical Drawing*

1 So. Jr. Sr.

3 Fr. So. Jr. Sr.

8 Fr. So. Jr. Sr.

*Mechanical Engineering*

1-6 So. Jr. Sr.

8 So. Jr. Sr.

11 Jr. Sr.

14 Sr.

15 Sr.

18 Jr. Sr.

21 Jr. Sr.

*Mechanics*

1 So. Jr. Sr.

4 Sr. Gr.

*Music*

3 So. Jr. Sr.

6 Jr. Sr.

*Philosophy*

1 So. Jr. Sr.

2 Jr. Sr.

3 Sr. Gr.

4 Jr. Sr. Gr.

5 Sr. Gr.

8 Jr. Sr. Gr.

11 Jr. Sr.

12 Sr. Gr.

15 Gr.

17 Sr. Gr.

*Physics*

3 So. Jr. Sr.

6 Jr. Sr.

7 Jr. Sr.

10 Sr. Gr.

13 Gr. Sr.

16 Sr. Gr.

19 Sr. Gr.

22 Jr. Sr. Gr.

23 Sr. Gr.

24 Jr. Sr. Gr.

*Political Science*

2 Jr. Sr. Gr.

5 Jr. Sr. Gr.

6 Gr.

7 Jr. Sr. Gr.

9 Gr.

10 Gr.

11 Gr.

12 Gr.

14 Gr.

15 Gr.

22 Gr. Jr. Sr.

*Sanskrit*

9 Jr. Sr. Gr.

*Social Science*

1 So. Jr. Sr.

2 Jr. Sr. Gr.

3 Jr. Sr. Gr.

5 Sr. Gr.

6 Gr.

7 Gr.

8 Gr.

9 Gr.

22 Gr. Jr. Sr.

*Spanish*

40 So. Jr.

43 Jr. Sr.

# LIBRARIES, LABORATORIES, AND MUSEUMS

## LIBRARIES

THE libraries of the University contain over one hundred and eighty thousand volumes. They comprise the MAIN LIBRARY, which occupies the Library Building (the gift of John Carter Brown, of the class of 1816); the JOHN CARTER BROWN LIBRARY, with its own building, recently given to the University; and the DEPARTMENT LIBRARIES, in the various seminary rooms and laboratories.

THE MAIN LIBRARY is constantly increased with reference to the different courses of study, while at the same time there is kept in view the development of a library of general culture. It includes three special libraries. The first is the Harris Collection of American Poetry, founded by Albert G. Greene, of the class of 1820, extended by C. Fiske Harris, and bequeathed to the University by the Hon. Henry B. Anthony, of the class of 1833, which numbers over eleven thousand volumes, and is perhaps the largest collection in the world devoted to the subject; a fund, given by Samuel C. Eastman, of the class of 1857, in memory of the founder of the collection, provides for its regular increase. The second is the Rider Collection of Rhode Island History, formed by Sidney S. Rider and presented to the University by Marsden J. Perry, a collection remarkable for the extent and rarity of its manuscript and printed material bearing on the history of the state. The third is the Wheaton Collection of International Law, given by William V. Kellen, of the class of 1872, in honor of Henry Wheaton, of the class of 1802. To all the books except the Harris and Rider Collections the students have free access.

The reading room contains the most important reference books, the books reserved by the departments for class use, the Select Library (a special collection of five hundred volumes of attractive reading), and the latest numbers of the standard periodicals, American and foreign. In this room are also the loan desk, where books are charged and returned, and the desk of the reference librarian, whose duty is to advise and assist students in their use of the library.

The library funds amount to eighty thousand dollars. Of this sum ten thousand dollars constitutes the Gammell Fund for the purchase of books relating to the history of the United States; ten thousand dollars, the Olney Fund for the purchase of plants and botanical books; ten thousand dollars, the Diman Memorial Fund for the purchase of books on medieval and modern history; and ten thousand dollars, the Banigan Fund for the purchase of books on medieval and church history. The remainder includes several smaller special funds and the Library Fund proper.

The following persons are entitled to the use of the Library without expense, — the members of the Corporation and Faculty; other college officers; graduates residing in the state of Rhode Island; donors to the funds of the University to the amount of five hundred dollars, residing in the state of Rhode Island; graduate and undergraduate students; and any other persons to whom the Corporation or the Library Committee may from time to time grant the privilege.

The Library is open during term time from 9 a.m. to 11 p.m. on week days, and from 2 to 11 p.m. on Sundays; during vacations from 10 a.m. to 4 p.m. on week days.

**THE JOHN CARTER BROWN LIBRARY**, given to the University by the trustees under the provisions of the will of John Nicholas Brown, of the class of 1885, is a collection of more than twenty thousand volumes relating to the history of North and South America during the colonial period. The larger part of the books, many of which are of great rarity and value, were printed before the year 1800 and contain the earliest published accounts of events connected with the discovery, exploration, and colonization of the Western Hemisphere. This collection, well known for many years as the most valuable private library of Americana in existence, was begun by John Carter Brown, of the class of 1816, and after his death was greatly enlarged by his widow and by his sons, John Nicholas and Harold Brown. The library occupies a building erected for it at the southeastern corner of the middle campus. It is open week days from 9 a.m. until 5 p.m.; the books may be consulted by properly qualified students or investigators, upon application to the Librarian. In the main hall of the building are a number of cases in which are exhibited rare books, engravings, and manuscripts belonging to the collection.

#### DEPARTMENT LIBRARIES

**THE GERMANIC DEPARTMENT LIBRARY** is contained in two rooms in Sayles Hall. The nucleus was purchased in Germany by the late Professor Alonzo Williams in the name of the principal donor, the Hon. Hezekiah Conant. It has since been augmented through the yearly library appropriation granted by the University, and recently an important addition was made through the generosity of Mr. Samuel Morris Conant of Pawtucket and other friends of the department, including German citizens of Providence. The library comprises over seven thousand carefully selected volumes, including editions of all the important writers of German literature; a large collection of Germanic philology; the leading German literary and philological periodicals; many works upon German history, the history of German literature, and German law, art, paleography, and geography. It is especially rich in works of the Middle High German period, in Goethe and Schiller literature, and in literature of the nineteenth century. It possesses several hundred photographs, some after paintings by the old German masters, some of important examples of German archi-



ture, both ecclesiastical and secular; some representing characteristic views of German cities and German landscape. There are, furthermore, many reproductions of paintings by modern German artists, lantern-slides and volumes of plates illustrating the subjects taught, engravings, bronzes, etc. The rooms are open from 9.20 a.m. to 12.30 p.m., and from 2 to 6 p.m.

THE CLASSICAL DEPARTMENT LIBRARY is contained in the room in Sayles Hall occupied by the Albert Harkness Classical Seminary, named in honor of its founder, the late Professor Albert Harkness. It consists of fifteen hundred volumes, purchased with funds contributed by friends of the University interested in classical studies, and contains the most important collections of Greek and Roman authors, besides commentaries, reference books, and similar aids. The seminary is made the center for advanced study and research in the classical languages and literatures. Though primarily intended for graduate students, the seminary is open to such undergraduates as are qualified to profit by its advantages. The room is open from 9.20 a.m. to 10 p.m.

THE ROMANCE DEPARTMENT LIBRARY is contained in room No. 4, Sayles Hall. It consists of a collection of a thousand volumes for the use of advanced students in the Romance languages. The room is open Monday, Tuesday, and Wednesday, from 4 to 6.30 p.m., and from 7 to 9 p.m.; on Saturday from 11.30 a.m. to 1 p.m.

THE BIBLICAL DEPARTMENT LIBRARY is kept in room No. 3, Sayles Hall. It consists of a reference collection of one thousand volumes, including a valuable collection of Semitic books presented by Mr. Jacob Shartenberg of Pawtucket. Through the gift of Mr. William Gammell important books for the use of advanced students have recently been added. A number of Semitic, Biblical, and general religious journals are kept on file. The room is open from 9.20 a.m. to 12 m., from 2 to 5 p.m., and from 7 to 9 p.m., except Wednesday and Saturday afternoons and Friday evenings.

THE BIOLOGICAL DEPARTMENT LIBRARY is kept in Rhode Island Hall. It is a collection of about two thousand two hundred volumes and fifteen hundred pamphlets, to which additions are constantly made. More than fifty current periodicals bearing upon the work of the department are regularly received. The rooms are open from 9.20 a.m. to 4 p.m.

THE EDUCATIONAL DEPARTMENT LIBRARY is contained in the seminary room of the department, in the Administration Building. The library contains over twelve hundred volumes, chiefly text-books of recent publication. The room is open to all students interested in education, and to teachers and friends of education in the city and state.

THE LIBRARY OF THE DEPARTMENT OF ECONOMICS is contained in the rooms of the department in Sayles Hall. It comprises about five thousand volumes, to which additions are constantly made, and receives regularly about one hun-

dred and twenty-five periodicals and papers bearing upon the work of the department. The rooms are open from 8 a.m. to 10 p.m.

THE BOTANICAL DEPARTMENT LIBRARY, located in the Herbarium, consists of some eight hundred bound volumes, several thousand pamphlets, and the more important current periodicals. These books have been selected from the large number in the main library as the ones most likely to be in demand by students working in the laboratory, and by visiting botanists working in the Herbarium. When not in use at the department, nor on reserve at the department or the main library, any of these books may be borrowed in the usual manner by applying at the University Library.

THE PHYSICAL DEPARTMENT LIBRARY is contained in a room in Wilson Hall. It is provided with files of the *Fortschritte der Physik*, *Annalen der Physik*, *Philosophical Magazine*, *Journal de Physique*, *Radium*, *Beiblätter der Physik*, *Physical Review*, *Scientific Abstracts*, and other magazines, together with a rich collection of the standard works and monographs in all departments of Physics and Electrical Engineering, to which are added the collected works of great authors, physical tables, etc. The room is open daily.

THE MATHEMATICAL DEPARTMENT LIBRARY is located in a room adjoining its recitation rooms in Wilson Hall. There are four hundred and seventy-two bound volumes of mathematical journals and five hundred and thirty-six volumes of other books. Special effort has been made to have the best books in all branches of Mathematics. The library has complete sets of the following journals, and regularly receives the current numbers: *Acta Mathematica*, *American Journal of Mathematics*, *Annals of Mathematics*, *Bulletin of the American Mathematical Society*, *Bulletin des Sciences Mathématiques*, *Journal de Mathématiques pures et appliquées* (Liouville), *Journal für die reine und angewandte Mathematik* (Crelle), *Mathematical Questions and Solutions from the Educational Times*, *Mathematische Annalen*, *Transactions of the American Mathematical Society*. It is desired that the library shall be used freely by the students; applications should be made to the librarian, Professor H. P. Manning.

THE LIBRARIES OF THE DEPARTMENTS OF CIVIL ENGINEERING, MECHANICAL ENGINEERING, MECHANICS AND MECHANICAL DRAWING are grouped together on the third floor of the Engineering Building. They form an excellent working library of about two thousand three hundred volumes, including complete sets of many periodicals. All of the important engineering periodicals are regularly received.

THE GEOLOGICAL DEPARTMENT LIBRARY is in Room L, Sayles Hall. It consists of more than two thousand volumes of general reference works, government and state reports, and periodicals dealing with various lines of geographical and geological study. The library is open from 8 a.m. to 10 p.m.

THE WOMEN'S COLLEGE LIBRARY AND READING ROOM occupy two rooms in Pembroke Hall. The library comprises about two thousand volumes of standard literature, chosen with special regard to the courses offered, thus forming for students of the Women's College a convenient and valuable adjunct to the University Library. An experienced librarian is in charge.

OTHER DEPARTMENT LIBRARIES. There are several other special collections of books for seminary and advanced laboratory work. The most important of these belong to the departments of Astronomy, Botany, Chemistry, English, History, Philosophy, and Social and Political Science.

### OTHER PROVIDENCE LIBRARIES

There are also at the service of the students of the University the seven collections of books named below. These comprise, with the University Library, half a million volumes, exclusive of pamphlets and manuscripts.

THE PROVIDENCE PUBLIC LIBRARY offers to all students of Brown University, upon the same conditions as to other residents of the city, the use of its carefully chosen collection, which comprises more than one hundred and forty-two thousand volumes. It is situated at the corner of Washington and Greene Streets. Its principal rooms are open regularly from 9 a.m. to 9 p.m.; on Sundays and Christmas from 2 to 9 p.m. Among its special departments may be mentioned the Harris Collection on Slavery and the Civil War; the Educational Study-room; the "Standard Library" of best literature; and the Reference Department. About seven hundred and fifty periodicals, serials, and annuals (of which about four hundred are the best known weeklies, monthlies, and quarterlies) are currently received. Within a few years a valuable Foreign Language Department has been established, comprising about twelve thousand volumes, and representing more than a dozen of the modern languages and literatures. The library staff is glad to be consulted with respect to books relating to any of the departments of University study, and to prepare lists of references in connection with any of the special topics under consideration.

THE LIBRARY OF THE PROVIDENCE ATHENAEUM is a collection of general literature numbering seventy-three thousand volumes. The reading room receives over two hundred papers and magazines, including New York, Boston, and Providence daily papers, and American, English, German, French, and Italian weeklies, magazines, and reviews. In bound sets of periodicals and in books on art this library is especially rich. Professors or teachers, non-residents of the city, may become annual subscribers on the payment of four dollars in advance, and any student of Brown University whose family does not reside in the city, or who may obtain the privilege from the Board of Directors, may become a subscriber for three months on the payment of one dollar. The annual subscription for residents is seven dollars and a half. The Athenaeum is open from 9 a.m. to 10 p.m. on week days.

THE LIBRARY OF THE RHODE ISLAND HISTORICAL SOCIETY is situated on Waterman Street, next door to the University Library Building. The library of the society comprises thirty thousand bound volumes and fifty thousand unbound volumes and pamphlets. Through the courtesy of the society the collection is made accessible, free of charge, to members of the University. It offers special facilities for thorough research not only in all subjects relating to the history of Rhode Island, but also in genealogy, biography, general American history, early American travel, and the drama. The library is open from 9 a.m. to 4 p.m. on week days.

THE ANNMARY BROWN MEMORIAL, situated on Brown Street south of the University grounds, was founded by General Rush C. Hawkins, of New York, in memory of his wife, Annmary Brown, of Providence, a granddaughter of Nicholas Brown, after whom the University was named. The building contains a collection—one of the most complete in the world—of books from the first European presses. It contains also a notable collection of paintings by old masters and modern painters. The collection of books was made for the special purpose of showing the progress of printing with movable metal type through the first half century of its existence, from about 1450 to 1500. It includes one hundred and thirty books from the possible two hundred and thirty-eight first presses set up in the cities, villages, and monasteries in Europe before the year 1501, and is fairly representative of countries. Among the books are many rare and interesting volumes. Incidentally there came into the collection many notable books adorned with woodcuts which show the earliest use of the woodcutter's art for book illustration.

THE LIBRARY OF THE RHODE ISLAND MEDICAL SOCIETY is in the Providence Public Library Building, on Washington Street. It comprises twenty-two thousand volumes and numerous pamphlets upon medical science, including biology, physiology, physiological psychology, hygiene, and other subjects the study of which is pursued in the University. About two hundred medical periodicals are currently received. Arrangements are easily made whereby any student can without cost enjoy the privileges here offered. This collection is open daily from 9.30 a.m. to 5.30 p.m.

THE STATE LAW LIBRARY, a collection of thirty-five thousand volumes, may be consulted in the Providence County Court House, at the corner of Benefit and College streets, between the hours of 9 a.m. and 5 p.m. on week days, excepting on Saturdays, when it closes at 3 p.m. It is accessible to all students, and for certain lines of University study is invaluable. University students are requested to introduce themselves at the desk on their first visit to this library.

THE STATE LIBRARY, located in the State House, is accessible to the public from 9 a.m. to 5 p.m.; on Saturdays from 9 a.m. to 12 m. This library contains a large collection of official documents of the United States and of the several states, a complete collection of the United States Patent Office Speci-



fications, and general works pertaining to history and political science. The Legislative Reference Bureau conducted by the State Library directs the work of students who are investigating topics in comparative legislation.

## LABORATORIES

THE LADD ASTRONOMICAL OBSERVATORY is equipped with a Saegmuller-Bra-shear equatorial of twelve inches aperture, which is supplied with a filar micrometer, a spectroscope, and other attachments; four transit instruments, two of which can be used as zenith telescopes; a chronograph; three astronomical clocks; several sextants and chronometers; recording meteorological apparatus; and various minor instruments. The equipment is available for illustrating the general courses in astronomy and for practical use in the applied courses.

The Observatory furnishes constant time-signals to the Fire Department of the City of Providence, and to the Rhode Island Electric Protective Company, which distributes them to its patrons. Routine observations for determining clock errors, and for pressure, temperature, humidity, and precipitation, are made throughout the year. Special observations are also made as opportunity offers.

THE PHYSICAL LABORATORY is in Wilson Hall, which was specially designed and constructed for the Department of Physics. Twelve laboratory rooms are available for experimental study. Brick piers support the instruments requiring great steadiness, and the magnetic rooms are as free as possible from the influence of iron and from other disturbances. Several rooms on the ground floor are devoted to electrical engineering. The Laboratory is supplied with apparatus both experimental and demonstrative, and frequent additions are made. The department has a large collection of historical and other photographs, lantern-slides, and cage models illustrating the propositions in pure and applied physics.

THE CHEMICAL LABORATORIES are in Rogers Hall, which was erected expressly for the Department of Chemistry. The inorganic laboratory is supplied with tables and lockers furnishing accommodations for about two hundred and fifty students working by detachments. The organic laboratory is fitted with tables for about fifty students. Each table has arrangements for gas, high-pressure water-supply, etc. The library of the department is here.

THE GEOLOGICAL LABORATORIES are in the basement of Sayles Hall. They include laboratories of general geology, geography, and mineralogy, equipped with the requisite apparatus and with a detailed series of illustrative specimens. The region in which the University is situated offers in a small compass both simple and complex problems in field research in structural, paleontological, and stratigraphic geology. The library of the department contains full



sets of government and state geological reports, together with general reference works and current periodicals.

THE BIOLOGICAL LABORATORIES are in Rhode Island Hall. They include a laboratory for graduate students, a seminary room, laboratories for physiology, for bacteriology and histology, for neurology and embryology, and a large laboratory for elementary anatomy and comparative anatomy. The collection of zoological material and the anatomical and histological preparations of the Museum, the anatomical collection of the Rhode Island Medical Society, and material frequently contributed by the United States Fish Commission from the deep-sea dredging excursions, are always accessible to the students. Abundant living material is also readily available, since the laboratory is situated near the salt water and within a few miles of a floating laboratory on Narragansett Bay.

THE BOTANICAL LABORATORIES are in the basement of Maxcy Hall. The larger laboratory is used for the elementary courses, and the smaller for advanced work. They are equipped with the necessary simple and compound microscopes, paraffin baths, microtomes, freezing apparatus, incubator, sterilizer, etc., and a considerable amount of plant material preserved in liquids, as well as dried. The Herbarium, in an adjoining room, is accessible to advanced students in forestry and medicinal and systematic botany. Many reference books and current magazines are kept in the department rooms, in addition to the principal collection in the University Library.

THE PSYCHOLOGICAL LABORATORY occupies rooms in Wilson Hall. It possesses apparatus for the study of sensations, the determination of discriminative sensibility, the measurement of the duration of mental processes, the detection of physiological accompaniments of changes in consciousness, the study of temperament, and research in other fields. This equipment is adapted for the illustration and demonstration of the main results of experimental work in psychology, and for carrying on original research.

THE MECHANICAL ENGINEERING LABORATORIES, library, and drafting room are situated in the Engineering Building. The laboratories are equipped with apparatus for the work of the courses in strength of materials, steam, gas, and hydraulic engineering, and metallography. They contain a 400,000-pound and a 50,000-pound Riehle testing machine; a machine for testing full-sized timber and steel beams; a 50,000-inch-pound Olsen torsion testing machine; a machine for testing by repeated stresses; a Riehle cement testing machine; a cross-compound condensing Corliss engine; various smaller engines, gas and gasoline engines, steam pumps, air compressors, injectors, and the necessary apparatus for testing them; a rotary fire pump, Venturi meters, weirs, and measuring tanks; apparatus for investigating the nature and structure of alloys; a photographic dark room; and the usual small apparatus necessary to the work of such laboratories.

THE MECHANICAL ENGINEERING SHOPS, situated in Rogers Hall, are equipped with hand and machine tools for purposes of instruction in wood-working and metal-working.

THE MECHANICAL DRAWING ROOMS, accommodating two hundred and fifty students, are on the top floor of the Engineering Building. Connected with the main room is a library and reading room containing books relating to drawing and allied subjects. A collection of about two hundred and twenty-five models in wood and metal is extensively used in the courses. There is a dark room, with apparatus for preparing blue-prints. Students who find it necessary may obtain the free use of drafting instruments by applying to the instructor.

THE CIVIL ENGINEERING DRAFTING ROOMS, library, instrument room, and offices are located on the second floor of the Engineering Building. The drafting rooms have desks for about one hundred students. The instrument room contains a complete equipment of transits, theodolites, wye-levels, dumpy levels, hand levels, plane tables, and other apparatus necessary for the field work in surveying and railroad engineering. For the work in structural engineering the department has a collection of over four hundred photographs, five hundred large blue-prints of bridges, buildings, roof trusses, etc., and a complete set of steel structural shapes and iron beam-hangers. The department has also a collection of the various rocks used as road material, a Bausch and Lomb petrographic microscope, a set of the rail sections of the American Society of Civil Engineers, and models of railway appliances and harbor improvements.

## MUSEUMS

THE MUSEUMS OF ZOÖLOGY AND ANTHROPOLOGY are in Rhode Island Hall, and are open to the public daily. They are primarily not mere exhibition rooms, but places for work. The zoölogical and anatomical collections of the University form the Jenks Zoölogical Museum. The Museum of Anthropology contains a collection of articles of dress and implements from foreign countries, and a valuable collection of stone implements of aboriginal American races, including those of Rhode Island.

THE HERBARIUM is in the basement of Maxcy Hall. The general collection is estimated to contain upwards of seventy-five thousand specimens from all parts of the world, but mainly from America. The cryptogams occupy ten cases and the seed-plants thirty. All of these are mounted and systematically arranged according to Engler and Prantl's *Natürliche Pflanzenfamilien*. There are also several cases of unmounted specimens and duplicates. The genus *Carex* is particularly well represented, as it was the object of much special study by Colonel S. T. Olney, the founder of the Herbarium.

THE MUSEUM OF FINE ARTS occupies the first floor of Manning Hall. It con-

tains plaster casts of unusual excellence, chiefly from works of classical sculpture, which are of great value in illustrating ancient history, biography, and art. It contains also the George W. Harris bequest of pictures by old masters of the Italian and North European schools, and of works in marble, china, glass, bronze, and silver.

The University possesses a large number of valuable portraits, which are hung in Sayles Memorial Hall. The collection receives frequent accessions. It now includes portraits of the University's principal benefactors, of many of its former officers, and of other distinguished persons, Americans and foreigners. The history of Rhode Island is especially well represented.

A series of fourteen oil paintings illustrating early American history by Frank O. Small, presented to the Department of History by Samuel M. Conant, is hung in the Faculty Room in the Administration Building.

All the collections are open to the public.

## EXTENSION COURSES

THE University offers during each year two series of extension courses, given at the University and open to all who desire to enter. Each course consists of ten lectures or other exercises, and, while not identical with the corresponding course offered to regular students, is equivalent in the general character and amount of the work required. Persons entering these courses may at their option attend merely as listeners, or may do the prescribed work and take the examination given at the end of the course.

On the completion of each course, certificates are issued to those who have done the work assigned and passed the examination. Each extension course of ten lectures or other exercises is regarded by the University as the equivalent of one-half of a regular three-hour course for one term, and is accepted by the University in fulfilment of the requirements for the degree of A.B., Ph.B., and A.M., subject to such regulations respecting entrance requirements and prescribed courses as govern regularly enrolled candidates for the respective degrees. Regularly enrolled undergraduates, however, are not given credit for extension courses. For the degree of A.M., credit for extension courses may not exceed in amount two-fifths of the requirement for the degree, and the candidate must be registered with the Dean of the Graduate Department. Those who wish a certificate or University credit should announce their intention at the time of registration; all such announcements must be made not later than the third lecture of the course.

Applications for admission to extension courses should be sent to Professor Walter Ballou Jacobs, Secretary of the Committee on Extension Courses, Administration Building, Brown University. The application should give the full name and the address of the applicant, the course or courses in which registration is desired, and, if the applicant is a teacher, the present educational position. On receipt of the fee, a card of admission is issued which must be shown at the first lecture in each course. Classes are not formed in any course for which fewer than twenty-five apply. The fee for each course is three dollars and a half, payable in advance. Students desiring a certificate or University credit pay an additional fee of one dollar and a half; this fee is due on registration and must be paid not later than the third lecture of the course. Checks should be made payable to Brown University. They should be sent with the application if possible; if not, payment may be made at the Registrar's office, Administration Building.

The courses offered during the first half of the year 1909-10 are:

*The Modern Drama. From the Closing of the Theatres to the Present Time.*

Professor CROSBY. (*English 18—E 1.*)

*Social Welfare. Professors WILSON, DEALEY, WARD, and Mr. ARONOVICI.*

(*Social Science 20—E.*)

*The Protozoa, and their Relation to Health.* Professor WALTER. (*Biology 30—E.*)

*American History. The Early Years of the Constitution.* Professor MACDONALD. (*History 28—E 1.*)

*Nineteenth Century Poets.* Professor HUNTINGTON. (*English 19—E 1.*)

*German.* Professor CROWELL. (*German 1—E 5.*)

*Banks and Banking.* Professor GARDNER. (*Economics 3—E 2.*)

*A Study of Chateaubriand.* Mr. CHINARD. (*French 8—E 1.*) *In French. Given with the coopération of the Alliance Française.*



# ARRANGEMENTS WITH OTHER INSTITUTIONS



## THE RHODE ISLAND SCHOOL OF DESIGN

THE Rhode Island School of Design, which was incorporated in 1877 and opened in Providence in 1878, is an institution of large and increasing importance for the education of artisans and artists in the principles and processes of art, and for the general advancement of education in art by the exhibition of works of art and art studies, and by lectures. Its school building and museum are near the University grounds, and its collections are open daily to the public. Through its exhibitions there is opened to students an important means of culture.

The Corporation and Faculty of Brown University have agreed with the authorities of the Rhode Island School of Design upon a plan of coöperation in accordance with which certain courses at this School are open to students of the University and are counted towards a University degree. A description of these courses and a statement of the conditions under which they may be elected will be found in the list of studies given under the Department of Art, on page 72. Students from the Rhode Island School of Design are admitted to any classes in Brown University for which they are found to be prepared, and the University gives certain special courses for the benefit of classes from the School of Design.

## THE AMERICAN SCHOOL OF CLASSICAL STUDIES AT ATHENS

In 1902 a number of the friends of the University, in recognition of the sixtieth anniversary of the graduation of the late Professor Harkness, one of the founders of the American School of Classical Studies at Athens, united in contributing to the School the sum of \$5555, to establish a fund to be known as "The Albert Harkness Fund for the Benefit of Brown University." By the establishment of this fund, the privilege of free tuition in the School for all adequately prepared graduates of the University is henceforth secured. Any who desire detailed information regarding the School may obtain it by applying to Professor Poland, a former Director and now a member of the Managing Committee, Professor Manatt, likewise a member of the Managing Committee, or Professor Allinson, who has been elected Professor of the Greek Language and Literature at the School for 1910-11.

## THE NEWTON THEOLOGICAL INSTITUTION

The Newton Theological Institution has entered into an agreement with Brown University whereby certain work done in the University, for which a

mark of C has been awarded, or upon which the student passes an examination satisfactory to the Faculty of the Newton Theological Institution, will be credited toward graduation in the Theological course as follows: Biblical Literature and History 1, 2 (132 hours); 13, 17, 18, 14, 19, 20 (112 hours); 7-12 (108 hours); English 7 (33 hours),—in all, 385 hours. The total number of prescribed hours in the Theological course at the Newton Theological Institution is 1485.

### THE SCHOOL COMMITTEE OF THE CITY OF PROVIDENCE

The School Committee of the City of Providence, by special agreement, appoints a number of students as teachers in the Providence High Schools. Appointments are made from members of the Senior class who have pursued undergraduate courses in Education. These student-teachers are of two types. Those of the first type—of whom there are at least four, two of each sex—are occupied in the schools each day for somewhat more than half the usual school session. They receive a salary of four hundred dollars a year from the city. Those of the second type are allowed to teach and observe about five hours a week. They have considerably more freedom in the choice of subjects and of hours than those of the first type; they receive no remuneration from the city. An unusual opportunity is thus afforded students to gain at the same time a knowledge of the theory of education and experience in the art of teaching. In making appointments to places as teachers of the lowest grade in the Providence High Schools, preference is given to those who have successfully completed this course of training as student-teachers. In this respect student-teachers of the second type have the same status before the committee that makes appointments as those of the first type. The practice-teaching in the Providence High Schools is done under the following supervising teachers: Charles E. Dennis, Ph.D., Latin; Charles E. Tilley, A.M., Physics and Chemistry; Harriet P. Fuller, A.M., Latin; M. Catherine Mahy, A.M., English; Lester B. Shippee, A.M., History and Civics; Agnes F. Williams, A.M., French; Howard D. Day, A.M., Physics and Chemistry; Adelaide H. Arnold, Ph.B., English and History; Russell C. Lowell, A.M., Mathematics; Clarence H. Manchester, A.M., English; Edith H. Williston, A.M., German.

In a similar way a number of students are appointed to places in the Providence Grammar Schools. They receive a salary of three hundred dollars a year from the city. A limited number of Seniors and Graduates who are pursuing courses in Education are allowed to observe and teach in the Grammar Schools of the city in a way similar to that provided for student-teachers of the second type in the High Schools. The practice-teaching in the Providence Grammar Schools is done under the following supervising teachers: Isaac O. Winslow, A.M., Nathan G. Kingsley, and the Grammar Critics of the Providence Public Schools.

# PROVISIONS FOR THE PERSONAL WELFARE OF THE STUDENTS

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## PHYSICAL TRAINING

FOR the physical training of the students excellent opportunities are offered by the Lyman Gymnasium. It is thoroughly equipped with baths, dressing rooms, bowling alleys, and all kinds of apparatus usually found in modern gymnasiums. Connected with the Gymnasium is the Colgate Hoyt Swimming Pool, seventy-five feet in length by twenty-five feet in width, with a capacity of seventy-five thousand gallons. All the gymnasium work is under the supervision of the Professor of Physical Training, who makes a thorough examination and measurement of each student on entrance, and at other times by request. Special cases are referred to Dr. G. A. Matteson, the University Physician. Such exercises are prescribed as may be necessary to give health, strength, and symmetrical development. No student is allowed to attempt any feat which is likely to result in injury. From the close of the Thanksgiving recess to the end of the second term, all first and second year students are required to attend gymnasium exercises three times a week. For other members of the University voluntary classes are provided. The instructor gives five-minute talks on personal hygiene and exercise. The class work consists of setting-up exercises, developing exercises, calisthenics, the use of clubs, dumb-bells, wands, and single sticks, and general athletics. Instruction is also given in swimming, a special effort being made to teach all students to swim. In all the work, the aim is to develop health, strength, and vitality.

All branches of athletics are under the management of the Brown University Athletic Association, and are controlled by a board of undergraduates. The Faculty Committee on Student Organizations has general oversight of the deportment and scholarship of the members of the various teams. Lincoln Field adjoins the gymnasium, and is a convenient place of exercise for the class teams and the students in general. Andrews Field, which is a mile and a half from the University, offers the usual opportunities for all the University teams. The Marston Field House, the gift of Mr. Edgar L. Marston, is fitted with dressing rooms, lockers, baths, and other accommodations.

## MEDICAL CARE

Any student suffering from illness is expected at once to visit or summon the University Physician, Dr. George A. Matteson. When called to see students, the duty of the University Physician is to make one call for diagnosis and prescription at the expense of the University. For continued attendance, students make their own arrangements with Dr. Matteson or some other physician.

The University owns two free beds in the Rhode Island Hospital, to the occupancy of which the President of the University has the right of appointment. The first of these, THE CHARLES SMITH BRADLEY FREE BED, was established in 1872 by the payment to the hospital of four thousand dollars by the late Judge Bradley, a member of the Board of Fellows, thereby endowing a free bed "under the control of the President of Brown University for the time being, for the benefit of any officer or student of that institution who may have occasion for it." The second, THE GEORGE IDE CHACE FREE BED, was established by the payment to the hospital of four thousand dollars by the late Professor George Ide Chace; this foundation gives to the President of the University "the right to nominate and send to said hospital a patient, being a proper subject for treatment in said hospital according to the rules of the institution, to occupy a bed in said hospital, and to receive the usual care, and medical, surgical, and other attendance, and medicines and board, free of charge."

### RELIGIOUS SERVICES

A chapel service is held in Sayles Hall every week day at 9 a.m. The President usually conducts the exercises. Attendance is required of undergraduates.

During the winter a series of vesper services is held in Sayles Hall on Wednesday afternoons at five o'clock, open both to students and to the public.

In 1909 the preachers at the vesper services were as follows:

REV. WILLIAM W. FENN, *Dean of Harvard Divinity School, Cambridge, Mass.*

REV. HUGH BLACK, *Union Theological Seminary, New York City.*

REV. S. PARKES CADMAN, *Central Congregational Church, Brooklyn, N. Y.*

REV. ALEXANDER MANN, *Trinity Church, Boston, Mass.*

REV. LYMAN ABBOTT, *Editor of the Outlook, New York City.*

REV. ORRIN P. GIFFORD, *First Baptist Church, Brookline, Mass.*

REV. WILLIAM H. P. FAUNCE, *Brown University, Providence, R. I.*

REV. NEWELL DWIGHT HILLIS, *Plymouth Church, Brooklyn, N. Y.*

REV. HARRY E. FOSDICK, *First Baptist Church, Montclair, N. J.*

REV. GEORGE H. FERRIS, *First Baptist Church, Philadelphia, Penn.*

### BROWN UNIVERSITY CHRISTIAN ASSOCIATION

During the fall and spring terms, the Brown University Christian Association conducts weekly meetings for the discussion of topics of religious, educational, and philanthropic interest. Small groups of students meet together weekly for Bible study, with undergraduate leaders trained by teachers of wider experience. Mission study classes are held during the winter term. The association provides student workers for several philanthropic institutions in the city of Providence. An information bureau is open to all the men of



the entering class during the first few weeks of the college year. The Association Employment Bureau (see page 175) seeks to obtain remunerative work for students who are largely dependent upon their own resources. The General Secretary, C. Edwin Silcox, gives his full time to the work of the Association. His office is Room K, Rockefeller Hall, and other rooms in the same building are designated for the various meetings. Every member of the University is invited to become a member.

### THE BROWN UNION

The Brown Union is an organization whose chief aim is to encourage a vigorous and healthy social life in the University and to bring under one roof, with competent direction, the various religious, literary, and athletic associations of the students. It occupies Rockefeller Hall which was built expressly for its use. Its membership is open to students, alumni, and Faculty, and includes almost all the undergraduates. The Board of Management consists of the President of the Union, who must be a member of the Senior class, and four members appointed by the Corporation. The building provides attractive offices for the Brown University Christian Association, the Athletic Association, the musical and dramatic clubs, the *Brunonian*, the *Daily Herald*, the College Bookstore, etc., rooms of various sizes for student meetings, and the usual conveniences of a social club, including large and handsomely furnished rooms for reading and lounging, an auditorium with well equipped stage, a restaurant and lunch counter, billiard room and barber shop. Informal entertainments and talks by members of the Faculty or other friends of the University are arranged for at frequent intervals. The personal direction of the affairs of the Union is in the hands of the Secretary and Treasurer, Paul Matteson, '06.

### STUDENT ADVISERS

As early as possible in the year the members of the Freshman class are divided into small groups for each of which some member of the Faculty acts as special counselor. Whenever practicable the expressed preference of either student or adviser is followed. One meeting is usually definitely appointed; but the working of the system is entirely informal, and while it is desired that it shall lead to closer personal relations, it fulfils its chief aim if it permits each student to feel that in any emergency of his college life, great or small, he is free to claim the counsel of a mature and interested adviser.

## DORMITORY ACCOMMODATIONS

IN the University dormitories there are in all one hundred and thirty-two single rooms and thirty-four suites. The rooms in Hope College, University Hall, and Slater Hall are rented unfurnished. Those in Maxcy Hall and



Caswell Hall contain all necessary furniture, occupants providing nothing except bedclothes and towels. A table showing the rent and location of the dormitory rooms is given in the Appendix. The prices there given include rent, heat, and service for the college year. Lighting is not included; there are meters for each room and the occupants are charged for the amount of light used each term.

Each student renting a room must sign a contract therefor in the form given below, on which surety may be demanded, binding him to pay or cause to be paid the rent of the room through the entire year. Where two students rent a room together, each must sign a contract for half the room expenses. This obligation is not impaired by the student's removal from the University, whatever the cause of such removal.

*The following is a contract between Brown University, party of the first part, and the undersigned, party of the second part. I hereby engage room No.                      in                      ; the same not to be occupied by any other person without consent of the party of the first part; and I bind myself to pay or cause to be paid to the Registrar of Brown University the entire rent, including heat and service, amounting to \$                      for the college year beginning September, 190 .*

*It is a part of this agreement that I shall be held responsible for all damage or defacement of such room or its furniture, ordinary wear excepted; also that disuse of the room by me on account of illness, or in case registration is refused me owing to low standing or bad conduct, does not impair the obligation of this contract.*

*Signed* \_\_\_\_\_

*This                      day of                      190 .*

Not more than two students are allowed regularly to occupy a room or suite. No sub-letting of rooms will be allowed. When the University holds full contracts for a room, the tenant or tenants may admit to the use of the room in the daytime one or two students, but not more than two. The names of any such sub-tenants must be reported to the Registrar as soon as the arrangement for sub-tenancy is made. For each sub-tenant the University makes an extra charge of one dollar a term for service. This sum is paid by the tenant-in-chief if there is but one; if there are two, each pays half.

All rooms not assigned for 1910-11 before May 10, 1910, will be disposed of at a drawing on May 26 at 4.30 p.m. Men intending to enter college in September can arrange to be represented at the drawing by notifying the Registrar.

## UNIVERSITY FEES

**FEES FOR UNDERGRADUATES.** *Tuition*: \$35 a term; \$105 a year. *Incidentals*: \$16 a term; \$48 a year. *Matriculation fee* (Freshman year only): \$5. *Graduation fee* (Senior year only): \$8.

The incidental expenses are for the printing of programs, examination papers, and the like, the use of the library and the gymnasium, heat for these buildings and for the recitation rooms, and the wages of servants to care for them.

Special students who are taking courses amounting to less than fifteen hours a week pay in proportion to the actual amount taken.

**FEES FOR RESIDENT GRADUATE STUDENTS.** *Tuition*: \$50 a term; \$150 a year. *Graduation fee*: for the degree of Master of Arts, \$15; for the degree of Master of Science, \$15; for the degree of Doctor of Philosophy, \$25.

Graduate students who are taking courses amounting to less than fifteen hours a week pay \$10 for each three-hour course.

A candidate in residence for the degree of Master of Arts or Master of Science who has paid full tuition for one year may, if necessary to the attainment of his degree, continue his studies for one year more without additional charge.

A candidate in residence for the degree of Master of Arts, who without remitting his studies becomes a candidate for the degree of Doctor of Philosophy, is credited with whatever tuition he has already paid, in case his previous work is allowed to count toward the higher degree.

A candidate for the degree of Doctor of Philosophy who has paid full tuition for two years may, if necessary to the attainment of his degree, continue his studies for two years more without additional charge.

**FEES FOR NON-RESIDENT GRADUATE STUDENTS.** *Registration fee*: \$25. *Tuition*: \$10 a term; \$30 a year. *Examination fee*: \$15.

A non-resident candidate is entitled, upon payment of the registration and tuition fees, to take one three-hour course in residence. For each additional course taken in residence a fee of \$10 a term is charged.

A non-resident candidate who has paid tuition for two years may, if necessary to the attainment of his degree, continue his studies for one year more without additional charge, except for work taken at the University.

**LABORATORY FEES.** In addition to the regular fees mentioned above the following fees are charged for laboratory courses. These fees cover the cost of ordinary supplies; special supplies and breakage are charged extra. *Chemistry* 1, 2, 3, \$3 a term. *Chemistry*, advanced 3-hour course, \$5 a term. *Chemistry*, advanced 6-hour course, \$10 a term. *Botany*, each 3-hour course, \$3 a term. *Biology*, each 3-hour course, \$3 a term. *Physics*, each 3-hour course,

\$5 a term. *Mechanical Engineering*, each 3-hour course, \$5 a term. *Electrical Engineering*, each 3-hour course, \$5 a term. *Geology*, each 3-hour course, \$3 a term.

**SPECIAL FEES.** Candidates for a first degree who do not pay four years full tuition fees must pay for all extra courses counted toward the degree at the rate of \$5 per term for each three-hour course. This amount must be paid at the beginning of the term preceding the completion of the degree work. This rule does not apply to courses credited from other institutions or taken during the summer.

Candidates for the degree of A.M. or Sc.M. who do not pay full tuition fees for one year, and candidates for the degree of Ph.D. who do not pay full tuition fees for two years, must pay for all extra courses counted toward the degree at the rate of \$5 per term for each three-hour course. This amount must be paid at the beginning of the term preceding the completion of the degree work. This rule does not apply to courses credited from other institutions.

### PAYMENT OF TERM BILLS

Every student, graduate or undergraduate, must pay in advance, at registration for each term, all charges for tuition and incidentals for such term.

Students occupying dormitory rooms must also pay at the above time all room charges for the term.

Students taking laboratory courses must also pay at the above time all laboratory fees for the term. These fees vary from \$3 to \$5 for each three-hour laboratory course.

At the beginning of the third term all students occupying dormitory rooms or taking laboratory courses must, in addition to the payment of the above amounts, make a deposit of \$5 toward charges for light or breakage during that term.

Freshmen, candidates for degrees, must pay at registration for the first term a matriculation fee of \$5.

Candidates for graduation in any year must pay all graduation fees at the beginning of the third term of that year.

### ESTIMATE OF ANNUAL EXPENSES

The following is an approximate estimate of the annual expenses of a student who occupies (with a room-mate) a dormitory room. It does not include the matriculation fee of five dollars in the first year, the graduation fee of eight dollars in the fourth year, nor outlay for clothes and traveling or other strictly personal expenses.

|  | <i>Moderate</i> | <i>Liberal</i>  |
|--|-----------------|-----------------|
| <i>Tuition</i>                               | \$105.00        | \$105.00        |
| <i>Incidentals</i>                           | 48.00           | 48.00           |
| <i>Room rent, including heat and service</i> | 60.00           | 187.50          |
| <i>Board (40 weeks)</i>                      | 160.00          | 240.00          |
| <i>Books and laboratory expenses</i>         | 30.00           | 75.00           |
| <i>Total</i>                                 | <u>\$403.00</u> | <u>\$655.50</u> |

THE BROWN UNION conducts a restaurant for its members in Rockefeller Hall; at present the price is \$5 a week.

Students who need to earn money find in the city numerous opportunities for doing so by giving private instruction, by teaching in evening schools, and in various other ways.

## FINANCIAL AID TO STUDENTS

THE aid which Brown University gives to students of limited means is granted under three conditions: (1) the recipient must be a candidate for a degree, having been fully admitted to the Freshman class or to advanced standing; (2) the recipient must be of good moral character and maintain a creditable standing in his studies; the aid is withdrawn if the student is placed under college discipline or fails to maintain good scholarship; an average of C is expected; (3) the recipient must be in need of the financial assistance desired. The aid rendered is of three kinds: (1) awards from fellowship, scholarship, and aid funds; (2) loans; (3) payment in cash or in credit on term bills for services rendered.

The administration of the scholarship and aid funds is in the hands of a committee of the Faculty, annually appointed by the Corporation for that purpose. The Dean of the University is the executive of the committee. Applications for scholarships for a given academic year should be filed with the Dean before May 1 of the preceding year. Action upon all applications is taken by the committee before July 1. The President has charge of the administration of fellowships, loan funds, and the service system.

### [A] FELLOWSHIP, SCHOLARSHIP, AND AID FUNDS

THE GRAND ARMY OF THE REPUBLIC FELLOWSHIP. The income of a fund of ten thousand dollars given by the Grand Army of the Republic, Department of Rhode Island, is annually awarded to a graduate of Brown University, of acknowledged excellence in scholarship and character. The recipient must be enrolled as a candidate for the degree of Doctor of Philosophy or have obtained that degree, must reside at Brown University, and must devote himself exclusively to advanced liberal study. Holders of

the fellowship are appointed by the President of the University, subject to the approval of the Board of Fellows. Appointments to the fellowship are regularly made for one year, but incumbents of special diligence or ability may be reappointed. Descendants of Union Veterans of the Civil War are always to be preferred when the other qualifications of candidates are equal. The political or religious preferences of candidates cannot be taken into consideration. The President is authorized to make such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper. Applications for this fellowship must be made in writing on blanks furnished by the Dean of the Graduate Department, and must be in the hands of the President not later than May 15. The Grand Army of the Republic Fellow for 1909-10 is

FREDERICK GEORGE KEYES

**TEACHING FELLOWSHIPS.** In addition to the foregoing a number of Teaching Fellowships have been established, information regarding which will be furnished by the President.

**FUNDED SCHOLARSHIPS.** There are now seventy-six scholarships of one thousand dollars, each with a designated name and yielding the beneficiary forty-five dollars annually; with the exceptions indicated below, they bear the names of their founders. The income is awarded annually according to the conditions attaching to each fund.

THE ELEVEN NICHOLAS BROWN SCHOLARSHIPS

THE FOUR UNIVERSITY SCHOLARSHIPS

THE PRESIDENT'S SCHOLARSHIP, founded by President Sears.

THE SIX ALVAH WOODS SCHOLARSHIPS

THE JAMES H. DUNCAN SCHOLARSHIP

THE ISAAC DAVIS SCHOLARSHIP

THE ARNOLD WHIPPLE SCHOLARSHIP, founded by Mrs. Arnold Whipple.

THE EPHRAIM WHEATON SCHOLARSHIP, founded by James Wheaton.

THE JOSEPH BROWN SCHOLARSHIP, founded by Mrs. E. B. Rogers.

THE GARDNER COLBY SCHOLARSHIP

THE CROCKER SCHOLARSHIP, founded by Robert H. Ives and Thomas P. Ives, Trustees.

THE CLARK SCHOLARSHIP, also founded by the Messrs. Ives.

THE GEORGE K. AND H. A. PEVEAR SCHOLARSHIP

THE JOSEPH CHARLES HARTSHORN SCHOLARSHIP

THE ROGERS HIGH SCHOOL SCHOLARSHIP, founded by William Sanford Rogers.

THE JAMES WHEATON SCHOLARSHIP

THE CHARLES THURBER SCHOLARSHIP



- THE PARDON MILLER SCHOLARSHIP, founded by Mrs. Ann E. Miller.
- THE HEZEKIAH S. CHASE SCHOLARSHIP
- THE WILLIAM BUCKNELL SCHOLARSHIP
- THE AUSTIN MERRICK SCHOLARSHIP, founded by Mrs. Olive E. Merrick.
- THE HORATIO N. SLATER SCHOLARSHIP
- THE EARL P. MASON SCHOLARSHIP
- THE NEWPORT SCHOLARSHIP, founded by William Sanford Rogers.
- THE ALEXIS CASWELL SCHOLARSHIP
- THE THREE HENRY JACKSON SCHOLARSHIPS
- THE MUMFORD SCHOLARSHIP, founded by Mrs. Louisa D. Mumford.
- THE ALBERT DAY SCHOLARSHIP
- THE HENRY P. KENT SCHOLARSHIP
- THE ROMEO ELTON SCHOLARSHIP
- THE FIVE ANNIE E. WATERS SCHOLARSHIPS
- THE LEWIS FAIRBROTHER SCHOLARSHIP, founded by Mrs. Lewis Fairbrother.
- THE GEORGE LAWTON SCHOLARSHIP
- THE JOHN P. CROZER SCHOLARSHIP, founded by Mrs. Margaret Bucknell.
- THE JAMES Y. SMITH SCHOLARSHIP
- THE TWO S. S. BRADFORD SCHOLARSHIPS
- THE FRANCIS R. ARNOLD SCHOLARSHIP
- THE CORNELIA E. GREEN SCHOLARSHIP
- THE HENRY CLIFFORD KNIGHT SCHOLARSHIP, founded by Miss Amelia S. Knight, in memory of her brother, a member of the class of 1875.
- THE THURSTON SCHOLARSHIP, founded by the Honorable Benjamin F. Thurston, of the class of 1849.
- THE RUFUS BABCOCK SCHOLARSHIP, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, the Rev. Rufus Babcock, of the class of 1821.
- THE JAMES FLETCHER BLACKINTON SCHOLARSHIP, founded by Mrs. Mary D. Blackinton, in honor of her husband, James Fletcher Blackinton, of the class of 1847.
- THE FIVE WILLIAM A. WHITE SCHOLARSHIPS, founded by Mrs. Abby S. A. White, in honor of her husband, William A. White, of the class of 1857.
- THE RICHARDS SCHOLARSHIP, founded by the Rev. William Coolidge Richards, of the class of 1837.
- THE SAMUEL WHITE DUNCAN SCHOLARSHIP, founded by Mrs. Mary Duncan Harris.
- THE BENJAMIN HUTCHINSON JUDAH SCHOLARSHIP

THE S. DRYDEN PHELPS SCHOLARSHIP, founded by the Rev. S. Dryden Phelps, of the class of 1844, the income to be given each year to some student who is preparing for the Baptist ministry.

THE ELIOT LOOMIS COLLINS SCHOLARSHIP, founded by Clarkson A. Collins in memory of his son, Eliot Loomis Collins, of the class of 1910, "the income to be given each year to some member of the Junior class needing pecuniary aid, who may possess his characteristic qualities of earnestness of application, steadfastness of character, and cheerful personality."

*There are also the following scholarships of larger amounts:*

THE TWO GEORGE J. SHERMAN SCHOLARSHIPS, paid from the income of a fund of two thousand five hundred and sixty-five dollars.

THE BARTLETT SCHOLARSHIP of four thousand dollars, founded by Mrs. Elizabeth Slater Bartlett; the income to be "devoted to the support of one or more students needing pecuniary aid, and giving promise, by studious aim and by character and scholarship, of rising to distinction and usefulness."

THE GLOVER SCHOLARSHIP of five thousand dollars, founded by Henry R. Glover, "in memory of his father, Samuel Glover, of the class of 1808, and of his brother, Samuel Glover, Jr., of the class of 1839."

THE REBECCA A. WHEELER SCHOLARSHIP of fifteen hundred and seventy-one dollars; the income to assist some worthy student, preferably a candidate for the Baptist ministry.

THE SCHOLARSHIP OF THE CLASS OF 1838 of thirty-eight hundred dollars.

THE JOSEPH CHARLES HARTSHORN SCHOLARSHIP of two thousand dollars.

THE TWO BANIGAN SCHOLARSHIPS of three thousand dollars each, founded by Joseph Banigan of Providence; the income as far as necessary to be used each year to defray the tuition of two students of the University.

THE GEORGE IDE CHACE SCHOLARSHIP of five thousand dollars, founded by Professor George Ide Chace, the income to be assigned each year by the Faculty to some member of the Senior class needing the money, who shows "marked ability, exemplary industry, generous aspirations, and irreproachable character." If in the Senior class there chances to be no person fulfilling the requirements of this scholarship, the proceeds of the scholarship for that year must be appropriated to the purchase of books for the library of the University.

THE ABBY WHEATON CHACE SCHOLARSHIP of four thousand dollars, also founded by Professor George Ide Chace, the income to be assigned yearly by the Faculty to some member of the Junior class needing the money, who shows "marked ability, exemplary industry, generous aspirations, and irreproachable character." If in the Junior class there chances to be no person fulfilling the requirements of this scholarship, the proceeds of the scholar-

ship for that year must be appropriated to the purchase of books for the library of the University.

**THE JOHN L. LINCOLN SCHOLARSHIP** of twenty-five hundred dollars, founded by Abby G. Beckwith.

**THE TRUMAN BECKWITH SCHOLARSHIP** of twenty-five hundred dollars, founded by Abby G. Beckwith.

**THE THAYER SCHOLARSHIP**, founded by Edward C. Thayer, in honor of his father, Joseph Thayer, of the class of 1815, the income to be for the education of any young man or woman a resident of Uxbridge, Massachusetts, endorsed by the selectmen and superintendent of schools there, needing pecuniary aid, and giving promise by character and scholarship of a life of usefulness. If there is no applicant from Uxbridge, the income may go to any applicant from Massachusetts who fulfils the conditions.

**THE TWO WALTER G. WEBSTER SCHOLARSHIPS**, founded by the Rev. Walter G. Webster, of the class of 1878; the income to go each year to two young men, members of the Freshman class, holding the full diploma of the Classical High School of the City of Providence and duly matriculated for the degree of Bachelor of Arts; "the nomination to rest with the Principal of said school, and to be made on the basis of character and scholarship, due regard being had to the need of such assistance."

**THE S. W. MARSTON SCHOLARSHIP**, founded in the name of his father by Edgar L. Marston. This scholarship yields two hundred dollars a year, and is open to any graduate of William Jewell College who may be recommended by the President of that institution.

**THE THREE E. L. MARSTON SCHOLARSHIPS**, founded by Edgar L. Marston. Each of these scholarships yields two hundred dollars a year. The first scholarship is open to any graduate of La Grange College who may be recommended by the President of that institution. The second is open to any graduate of Baylor University under similar conditions. The third is open to any graduate of the Central High School in St. Louis, Missouri, subject to the recommendation of the Principal.

**THE EATON SCHOLARSHIP** of two thousand dollars, founded in memory of her husband by Mrs. Caroline B. Eaton, the income to be used "in the aid of indigent Baptist young men having the ministry in view, preference being given to young men from New Hampshire."

**THE ALEXANDER FARNUM SCHOLARSHIP** of two thousand dollars, founded by Rev. Augustus Woodbury; the income to be given to such student as the Faculty shall select, the primary condition being that such student shall have been prepared for college at Phillips Exeter Academy in Exeter, New Hampshire.

**THE ALBERT HARKNESS SCHOLARSHIP** of three thousand dollars founded by Professor Albert Harkness; the income to be paid annually under the di-

rection of the Faculty to some student of excellent character and high scholarship who shall be in need of pecuniary aid.

*The following scholarships have been in part established:*

**THE TWO GEORGE HALE BACON MEMORIAL SCHOLARSHIPS** paying each recipient one hundred and fifty dollars a year, founded by George A. Bacon in the name of his father. The awards are made only to young men in need of assistance and solely on grounds of scholarship and personal character, no other consideration to receive any weight whatever.

**AID FUNDS.** There are four aid funds at the disposal of the University. The income of these funds is divided into scholarships of varying amounts which are awarded under the general conditions applicable to all scholarships. They are as follows:

**THE AARON LUCIUS ORDWAY MEMORIAL FUND** of twenty-five hundred dollars, founded by Samuel H. Ordway in the name of his father, "the income to be used in the discretion of the President to assist regular students of the University who are in need of assistance. Each student who accepts such assistance shall in writing acknowledge the receipt of the same and pledge himself to repay the amount so received by him as soon as he can conveniently afford to do so, all sums so repaid to be added to the principal."

**THE NANCY GOODNOW FUND** of two thousand dollars, the income to be expended in assisting one or more students of the University who are preparing to be ministers of the Baptist denomination in the United States.

**THE AID FUND**, established by friends of the University in 1868 and now amounting to \$9300.

**THE DANIEL W. LYMAN FUND FOR STUDENTS**, established by Daniel W. Lyman and now amounting to \$72,250.

**THE WILLIAM GROSBECK GODDARD MEMORIAL FUND** of \$3500, founded by Col. Robert H. I. Goddard in the name of his son, "the income to be used by the President or acting President of the University, in his discretion, to aid young men without adequate means to obtain an education. Each beneficiary shall give a receipt for all money received, and shall agree, without making any written pledge, to refund amounts received by him whenever he can do so conveniently."

**THE EDWIN A. W. HARLOW FUND**, founded by Edwin A. W. Harlow, now amounting to \$10,400, the income to be "for assisting poor young men of excellent moral character in the Academic Department."

**UNIVERSITY SCHOLARSHIPS.** In addition to the income of the Scholarship and Aid Funds, the Advisory and Executive Committee of the Corporation appropriates each year a large sum of money from the Common Fund of the University for the assistance of students. The amount at present

exceeds \$15,000, and is used to provide University scholarships, which are of three grades:

(1) A small number yielding each \$50 a term or \$150 a year, awarded to a few Juniors and Seniors of especially high scholarship.

(2) A number yielding each \$35 a term or \$105 a year.

(3) A number yielding each \$20 a term or \$60 a year, used in part to supplement the smaller endowed scholarships, and also for those students needing relatively less assistance.

The University Scholarships are taken directly from the University treasury and employ funds which would otherwise be available for other college purposes. It is expected, therefore, that the holders of these scholarships will regard them as in a certain sense loans, and will at some time after graduation return to the treasury the amount awarded, to be used for the increase of the permanent scholarship funds, or that they will in some other way contribute to the endowment of the University.

### [B] LOAN FUNDS

I. The Alumni Loan Fund, now amounting to about \$4300, was established by the Alumni Association at the Commencement of 1900 by a vote transferring to the Treasurer of the University the fund formerly known as the Brown Loyalty Fund, to be used as a loan fund for students. The principal of this fund is loaned at interest, to be repaid as agreed upon in each instance.

II. There is another fund, of several hundred dollars, which is loaned in small amounts without interest, for short periods, to students unexpectedly needing temporary assistance.

### [C] SERVICE

The University is able to give employment to a number of students as monitors, assistants in the libraries and laboratories, members of the choir, and clerks in the Registrar's office. Not more than two hours a day are ordinarily required of any student; the compensation is made at definite rates. At present about \$6000 a year is appropriated for service, and employment is given to about eighty students, who receive amounts varying from \$20 to \$40 a term.

The University also coöperates with the Christian Association in securing employment for students by business houses and residents of the city. Students who desire any kind of work are requested to make application to the General Secretary of the Brown University Christian Association, Rockefeller Hall.



## PREMIUMS, PRIZES, AND HONORS†

### FOR EXCELLENCE IN PREPARATORY STUDIES

THE PRESIDENT'S PREMIUMS, derived from the income of a fund presented to the University in 1843 by President Wayland, supplemented from the income of the Hicks Prize Fund, No. 2, are awarded each year to those members of the Freshman class who upon examination are found to excel in the studies required for admission to the University in Greek and Latin. First and Second Premiums are awarded in each of these studies. The examinations deal with the general principles and laws of the languages involved rather than with irregularities and exceptions. Special importance is attached to the pupil's familiarity with the subject-matter of the works read, and to his ability to translate with accuracy and facility into clear, appropriate, and idiomatic English. The examination in Greek is held in 5 Maxey Hall at 2.30 p.m. on the second Saturday of the first term and that in Latin in 1 Sayles Hall at 2.30 p.m. on the third Wednesday. The award of these premiums in 1909 was as follows:

*In Greek the first premium to GEORGE BOAS, instructed in the Classical High School, Providence.*

*The second premium to LEON CLIFFORD HIGH, instructed in the Classical High School, Providence.*

*In Latin the first premium to LOUIS ISRAEL NEWMAN, instructed in the Classical High School, Providence.*

*The second premium to GEORGE BOAS, instructed in the Classical High School, Providence.*

THE HARTSHORN PREMIUMS IN MATHEMATICS, derived from the income of a fund of one thousand dollars presented to the University in 1872 by Joseph Charles Hartshorn of the class of 1841, are awarded to the two members of the Freshman class who upon examination are found to excel in the mathematical studies required for admission. The examination is held in 27 Wilson Hall at 2 p.m. on the third Saturday of the first term. In 1909 three premiums were awarded as follows:

*The first premium to LEONARD WALTER SMITH, instructed in the High School, Pawtucket, Rhode Island.*

*The second premium to ARTHUR ERNEST ALLEN, instructed in the High School, Pawtucket, Rhode Island.*

† The premiums and prizes enumerated here are, with the exception of the *Society of Colonial Dames Prize in American History* (see page 180), intended for men. The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered in Brown University. In case any woman is entitled to a first premium, one is awarded her by the Dean of the Women's College. For premiums awarded to women in 1909 see page 235.

*The third premium to CHARLES ELTON BURGESS, instructed in the High School, New Bedford, Massachusetts.*

THE ENTRANCE PREMIUMS IN FRENCH, derived from the income of the Hicks Prize Fund, No. 2, are awarded to the two members of the Freshman class who upon examination are found to excel in the French studies required for admission to the University. The examination is held in 1 Sayles Hall at 2 p.m. on the fourth Wednesday of the first term. In 1909 these premiums were awarded as follows :

*The first premium to LOUIS ISRAEL NEWMAN, instructed in the Classical High School, Providence.*

*The second premium to CLARENCE WARD PIPER, instructed in the Rockland High School, Rockland, Massachusetts.*

THE ENTRANCE PREMIUMS IN GERMAN, derived from the income of the Hicks Prize Fund, No. 2, are awarded to the two members of the Freshman class who upon examination are found to excel in the German studies required for admission to the University. The examination is held in 5 Sayles Hall on the fourth Saturday of the first term. In 1909 these were the CAESAR MISCH PRIZES, and were awarded as follows :

*The first prize to EDWIN GUSTAV HEMPEL, instructed in the Technical High School, Providence.*

*The second prize to LOUIS ISRAEL NEWMAN, instructed in the Classical High School, Providence.*

## FOR EXCELLENCE IN UNIVERSITY STUDIES

THE CARPENTER PRIZES FOR ELOCUTION, derived from the income of a fund established in 1867 by Thomas Carpenter, are awarded annually to the three students to whom are assigned the first, the second, and the third rank of excellence in elocution. The competition is open to all members of the Sophomore class and to those members of the Junior class who did not enter the preliminary competition in their Sophomore year. The selections declaimed may be either prose or verse. They must be approved by the Professor of Public Speaking, with whom competitors must enter their names not later than the first day of February. A preliminary contest for the purpose of selecting the speakers takes place in the latter part of the winter term ; all arrangements for it are in the hands of the Professor of Public Speaking. The committee of award consists of five members, — the Professor of Public Speaking, who is the chairman, two persons selected by the Corporation, and two persons selected by the Sophomore class during the first term of the year ; no one who is or has been a member of the class is eligible to membership in the committee. In 1910 the contest will be held in Manning Hall on May 3. In 1909 these prizes were awarded as follows :

## BROWN UNIVERSITY

*The first prize to WARREN CLIFFORD JOHNSON*

*The second prize to JULIUS ADOLPH SAAKE*

*The third prize to GOUGH DECATUR MCDANIELS*

THE HICKS PRIZES FOR EXCELLENCE IN DEBATE, established by the Honorable Ratcliffe Hicks of the class of 1864, are annually awarded as follows:

I. Two prizes of fifty dollars each, one in each of the two series of contests for the selection of the representatives of the University in the inter-collegiate debates. In each instance the prize is given to the man showing the greatest ability both in the preliminary trials and in the final trial. In awarding the prize, regard is given to thought, style, and delivery. The judges are three, appointed by the Debating Union. In 1909 these prizes were awarded to

CHARLES EVANS HUGHES, JR., and CHAUNCEY EARLE WHEELER

II. A first prize of thirty dollars and two second prizes of twenty dollars to the students showing the greatest ability in a public debate between the representatives of the Junior and Sophomore classes. Each class is represented by three men, whom a committee appointed by the President of the University chooses from the preliminary contestants at least a month before the public debate. This committee also determines the subject and makes the necessary arrangements. The judges in the public debate are three, one appointed by the President, and one by each group of competitors. The prizes are awarded irrespective of the decision upon the debate as a whole. Any one prize may be withheld if no one is adjudged to deserve it. In making the award, regard is given to thought, style, and delivery. In 1910 the public debate will be held on May 17. In 1909 these prizes were awarded as follows:

*The first prize to MORRIS JACOB WESSEL*

*The second prizes to WINFIELD WARDWELL GREENE  
and WARREN CLIFFORD JOHNSON*

THE DUNN PREMIUM. The income of a fund of one thousand dollars, presented to the University in 1872 by pupils and friends of Professor Robinson Potter Dunn, is given, at the end of the Junior year, to the student having the highest standing in the courses in rhetoric, English composition, and public speaking. In making the award, regard is given to the number of such courses taken as well as to the rank attained in them. In 1909 this premium was awarded to

WALTER BROOKS HENDERSON

THE CARPENTER PREMIUMS, two in number, are derived from the income of funds established in 1867, one by Thomas Carpenter and one by Lydia Carpenter. They are assigned at the end of the Senior year to the two members of the Senior class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements

of success in life,—ability, character, and attainment.” In 1909 these premiums were awarded to

FREDERICK MAY BOYCE and SYDNEY WILMOT

**THE HOWELL PREMIUM.** The income of a fund amounting to one thousand dollars, presented to the University in 1867 by Gamaliel Lyman Dwight, is given at the close of the second term of the Senior year to the student who, “having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy.” To be considered a candidate for the premium a student must, in each term from the Freshman year to the end of the second term in the Senior year, take at least one of the elective courses in pure or applied mathematics. In 1909 this premium was awarded to

JULIUS LASKER

**THE CLASS OF 1873 PRIZE.** The income of a fund of one thousand dollars, presented to the University by the class of 1873, is annually awarded to that member of the Senior class who writes the best essay on a historical or a philosophical subject. The subjects, which are of a historical nature one year and of a philosophical nature the next, are assigned by the respective departments. For 1909–10 the subject is: *The movement for imperial federation in Great Britain*. For 1908–09 the subject was: *Psychological determinism and moral responsibility*. The prize was awarded to

CHARLES EVANS HUGHES, JR.

**THE FOSTER PREMIUM IN GREEK** is derived from the income of a fund of three thousand dollars bequeathed to the University in 1880 by the Honorable Lafayette Sabine Foster, of the class of 1828. In accordance with the terms of the donor's will, the income of this fund is to be “annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's *Iliad*, or in the *Oration on the Crown* by Demosthenes.” The examinations are open to the members of the Senior class. The next examination will be held early in May, 1910; candidates will be examined in the *Iliad*. In 1909 no award was made. A collateral premium was awarded to

FRANCES ALLEN FOSTER

**THE LUCIUS LYON PREMIUMS IN LATIN** are derived from the income of a fund of five thousand dollars presented to the University in 1893 by Mrs. Caroline L. Lyon, in memory of her husband, Lucius Lyon, of the class of 1844. Five-tenths of the income each year forms the first premium, three-tenths the second, and two-tenths the third. Any part of the income not needed in any given year must be added to the fund. The premiums are awarded on the basis of a special examination held during the last term of the Senior year. The examination may relate to any or all of the following subjects: the Latin language, Roman literature, Roman history. The President of the University and the head of the Department of Roman Literature and His-



tory prescribe the conditions for admission to the examination. In 1909 these premiums were awarded as follows :

*The first premium to HAROLD MAURICE FROST*

*The second premium to JOSEPH CHURCH, JR.*

*The third premium was not awarded.*

**THE BENNETT PRIZE.** The income of a fund of four hundred dollars, established by Philo S. Bennett in 1905, will be awarded annually for an essay on Free Government. The conditions governing the competition will be announced later.

**THE CLASS OF 1880 PRIZES,** established in 1905 by the class of 1880, are annually awarded to the undergraduates of Brown University who show the most ability in presenting arguments on some current question of importance to Brown University. The subject for discussion, the time, and the manner of presentation are all determined by representatives of the English department in consultation with the President of the Debating Union and the editors-in-chief of the *Brunonian* and the *Brown Daily Herald*. The prizes are awarded by a board of five judges: two are appointed by the President of the University, two by the undergraduate members of the committee in charge; the fifth is a member of the English department.

In 1910 a first prize of forty dollars and a second prize of twenty-five dollars will be awarded to the students who show the most ability in a public discussion of the topic chosen. This discussion will be held on February 1; a preliminary discussion will be held on January 25. A prize of thirty-five dollars will be awarded to the writer of the best argumentative essay of from three thousand to five thousand words upon the same subject. The essays must be signed with an assumed name; they must be in the hands of the Registrar before 4 p. m., January 25. The prize for the essay may be withheld if no essay is deemed worthy, or may be divided between the first and the second competitors. A student may compete for both prizes. For 1910 the subject chosen is: *Should a compulsory tax for the support of general college activities be established at Brown University?* In 1909 these prizes were awarded as follows :

*The first prize for the discussion to ROBERT KERSHAW BENNETT*

*The second prize for the discussion to SAMUEL MAY LEDERER*

*The prize for the essay, in equal parts, to ALBERT MOSES CRISTY  
and ROBERT FULTON SKILLINGS*

**THE SOCIETY OF COLONIAL DAMES PRIZE IN AMERICAN HISTORY.** The income of a fund of fifteen hundred dollars, known as The Roger Williams Fund established by the National Society of Colonial Dames in the State of Rhode Island and Providence Plantations, given to the University in 1906, is awarded annually as a prize for the best essay on a subject in American colonial history. The competition is open to Juniors, Seniors, and Graduates,



and to men and women on equal terms. Essays must show independent use of authorities, and should, in general, extend to at least four thousand words. Detailed regulations governing the competition are announced from year to year, and the name of the successful competitor is announced at Commencement. The subject for the essay in 1909-10 is: *The public life of Esek Hopkins*. For 1908-09 the subject was: *The history of Rhode Island, principally with reference to the relations between the colony and Great Britain, from 1685 to 1700*. The prize was awarded to

MARJORIE MAUD STONE

THE BISHOP McVICKAR PRIZES, offered by the Rt. Rev. William N. McVickar, Bishop of the Protestant Episcopal Diocese of Rhode Island. A first prize of fifty dollars, and a second prize of twenty-five dollars, for the best essays of from three to four thousand words on a subject assigned by the Department of Biblical Literature. The competition is open to undergraduate men who are, or have been, students in the Department of Biblical Literature. Those who intend to compete must give their names to the head of the department not later than March 1, and essays, under an assumed name, must be delivered to the Registrar not later than the first Saturday in May. For 1909-10 the subject is: *The relation of the Biblical writings to the life of their times*. For 1908-09 the subject was: *Preachers of social reform in ancient Israel*. The prizes were awarded as follows:

*The first prize to* GEORGE FRANCIS SYKES

*The second prize to* HAROLD MAURICE FROST

THE WILLIAM GASTON SCHOLARSHIP. This fund of five thousand dollars was established in 1899 by the widow and children of the Honorable William Gaston, LL.D., of the class of 1840. Its income is awarded annually by the Faculty solely upon merit, without reference to financial condition. For 1909-10 this scholarship was awarded to

MAX BARUS

THE GASTON PRIZE MEDAL FOR EXCELLENCE IN ORATORY. From the income of a fund of three thousand dollars established in 1894 as a memorial to the Honorable William Gaston, LL.D., of the class of 1840, a gold medal is annually awarded to the member of the graduating class who delivers the best original oration in English. The orations are not to exceed fifteen hundred words. In order to compete for the prize a student must deposit with the Registrar a typewritten copy of his oration, signed with an assumed name, six weeks before the public competition. From these orations a committee appointed by the President of the University selects not more than six for delivery. The committee of award in the final contest consists of three members appointed by the President. In making the award, regard is given to thought, style, and delivery. The winner of the medal is entitled to deliver an oration at Commencement. In 1910 the orations must be deposited

with the Registrar on or before April 2; the public competition will be held on May 10. In 1909 this prize was awarded to

IVORY LITTLEFIELD

## HONOR SCHOLARSHIPS

To encourage proficiency in studies and to provide recognition for successful application to college work, the Faculty has established Honor Scholarships without aid as follows:

THE JAMES MANNING SCHOLARSHIPS, awarded to those undergraduates whose work throughout the year has been of such excellence that they are deemed worthy of very high academic distinction.

In 1909 these scholarships were awarded as follows:

### *Class of 1909*

Frederick May Boyce

James Davis Dean

### *Class of 1910*

Maxwell Barus

Edward Holton Mason, Jr.

Warren Clifford Johnson

Howard Alfred Taber

### *Class of 1911*

Albert Arnold Bennett

### *Class of 1912*

Dana Gardner Munro

THE FRANCIS WAYLAND SCHOLARSHIPS, awarded to those undergraduates who have shown marked excellence in their work, but have not attained the standard required for the James Manning scholarships.

In 1909 these scholarships were awarded as follows:

### *Class of 1909*

George Henry Campbell

Chester Sargent Hardy

Robert Foster Chambers

John Joseph Sullivan

Harold Maurice Frost

Robert Campbell Weed

### *Class of 1910*

Harold Stephen Bucklin

Albert Farnsworth

### *Class of 1911*

Philip Chadsey Curtis

Edwin Arthur Dow

David James Purdie

## APPOINTMENTS FOR COMMENCEMENT

At Commencement four members of the graduating class deliver original orations in English of not more than fifteen hundred words each. One speaker

is the winner of the Gaston medal; the others are selected by the Faculty from nominations by the heads of departments. The basis of selection is scholarship, ability to write, and ability to speak. The students thus appointed confer with the Professor of Rhetoric, who advises with them in regard to the choice and treatment of their subjects, and with the Professor of Public Speaking, who trains them in the delivery of their orations. Before Commencement each speaker must hand to the Professor of Rhetoric a copy of his oration for preservation in the University Library. In 1909 the speakers selected by the Faculty were:

JAMES GREENAN CONNOLLY      CHARLES EVANS HUGHES, JR.  
CHAUNCY EARLE WHEELER

## FINAL HONORS

FINAL HONORS in any department are awarded, at the completion of the studies leading to a bachelor's degree, to those who have secured: (1) A mark of H in courses in the department aggregating eighteen or more term hours; (2) a mark of C or H in eighty-five per cent of all their courses of study. In any department, however, certain specified courses may not be included in those counted for Final Honors. The names of all students awarded Final Honors are printed in the Commencement Program and in the Annual Catalogue. In 1909 the awards were as follows:

JARVIS HOWARD ALGER, *English, Mechanics.*

ROBERT KERSHAW BENNETT, *Mathematics.*

CLARENCE WILLIAM BOSWORTH, *Social and Political Science.*

FREDERICK MAY BOYCE, *Chemistry, Mathematics, Physics.*

CHARLES LEWIS BRIGHTMAN, *Chemistry, Mathematics, Physics.*

EMERSON LAWRENCE CHANDLER, *Mechanics.*

DONALD GRAHAM CLARK, *English, Greek Literature and History, Romance Languages and Literatures.*

JAMES GREENAN CONNOLLY, *Roman Literature and History, Social and Political Science.*

ALBERT MOSES CRISTY, *Chemistry.*

JAMES DAVIS DEAN, *Chemistry.*

HENRY EDWIN FOWLER, *Roman Literature and History.*

HAROLD MAURICE FROST, *Chemistry, Roman Literature and History.*

CHARLES EVANS HUGHES, JR., *English.*

JULIUS LASKER, *Civil Engineering, Mathematics, Mechanics.*

BURTON FRED LATHAM, *Mathematics.*

ALBERT EDDY LEACH, *Mathematics.*

IRVING WOOSTER PATTERSON, *Civil Engineering, Mathematics.*

JOHN JOSEPH SULLIVAN, *Romance Languages and Literatures.*

FRANK CARTER TAYLOR, *Physics.*

ROBERT CAMPBELL WEED, *Chemistry*.

CHAUNCEY EARLE WHEELER, *English, Germanic Languages and Literatures, Social and Political Science*.

SYDNEY WILMOT, *Civil Engineering, Mathematics, Mechanics, Physics*.

LESLIE STEPHEN HIGH (in 1908), *Social and Political Science*.

CARRIE ETHEL BAKER, *English, Germanic Languages and Literatures*.

ADA IRENE BURTON, *English, Germanic Languages and Literatures, Physics, Romance Languages and Literatures*.

ELIZABETH MARY EATON, *Biology, Roman Literature and History*.

FRANCES ALLEN FOSTER, *English, Greek Literature and History, Roman Literature and History, Philosophy*.

MARGUERITE GRACE FROST, *Germanic Languages and Literatures, Mathematics, Education*.

IRENE LYDIA LARAWAY, *Education, Germanic Languages and Literatures*.

ISABELLE DOUGLAS SCOTT, *English, Philosophy, Romance Languages and Literatures*.

MARGARET BINGHAM STILLWELL, *Germanic Languages and Literatures, History*.

# DEGREES CONFERRED IN 1909

## DEGREES IN COURSE

### BACHELOR OF ARTS

Thomas Parker Ayer  
George Warren Babcock  
Harold Pemberton Babcock  
Herbert Luther Barrett  
Robert Kershaw Bennett  
William Bichwit  
Irving Whitman Bogle  
Clarence William Bosworth  
William Potter Buffum, Jr.  
Stuart Russell Bugbee  
John Wymond Miller Bunker  
Philip Burbank  
Walter Hillman Butler  
Hugh Fred Cameron  
Henry Sharpe Chafee  
Malcolm Doyle Champlin  
Newton Gladding Chase  
Joseph Church, Jr.  
Donald Graham Clark  
James Greenan Connolly  
William Michael Conroy  
Harry Francis Cook  
Albert Moses Cristy  
Harold Redwood Curtis  
James Davis Dean  
Lawrence Sanford Elliot  
Paul Ellsworth Everett  
John Addison Foote  
Henry Edwin Fowler

Harold Maurice Frost  
Thomas Harper Goodspeed  
Ernest Russell Hager  
Chester Sargent Hardy  
Albert Harkness  
Harold Griffith High  
Charles Evans Hughes, Jr.  
Milton Bicknell Hunt  
Clarence Richard Johnson  
Bernard Aloysius Keenan  
Burton Fred Latham  
Ivory Littlefield  
Edmund Humphrey McCarthy  
Louis Augustine McCoy  
Omar Roscoe McCoy  
William Davis Miller  
Albert Harkness Poland  
Lawrence Richmond  
Alberti Roberts  
Allen Oscar Seabury  
Henry Boyd Selleck  
Henry William Shay  
Harold Bertram Smith  
John Joseph Sullivan  
Robert James Banigan Sullivan  
John Hazard Wells  
Robert Holmes Whitmarsh  
Louis Paul Willemin

Carrie Ethel Baker  
Matty Lucina Beattie  
Lucile Murray Blanchard  
Ada Irene Burton  
Anna Clarke Carpenter  
Mildred Diman  
Elizabeth Mary Eaton  
Frances Allen Foster

Marguerite Grace Frost  
Irma Alida Gyllenberg  
Agnes Jonas  
Irene Lydia Laraway  
Emma Dunham Lee  
Margaret Currier Lyon  
Gertrude May Marble  
Bessie Louise Mayo



Elsie Emeline McCausland  
 Margaret Julia Morgan  
 Mary Loretta O'Brien

Ethel Fanning Riley  
 Annie Martha Sanders  
 Margaret Bingham Stillwell

Mabel Winifred Tourtellot

#### BACHELOR OF PHILOSOPHY

Frederick May Boyce  
 Charles Lewis Brightman  
 Fred Reed Budlong  
 Raymond Buss  
 Charles Frederick Butterworth  
 Robert Foster Chambers  
 William Matthew Connell  
 Moses Leverock Crossley  
 James Payson Dixon, Jr.  
 William Pendleton Dodge  
 Hubert Richardson Ede  
 Edward William Everson  
 Walter Mason Gager  
 Adolph Gorman  
 Everett Arnold Greene  
 Walter Herman Harris  
 Harry Beaston Lake  
 Lawrence Lyle Larrabee  
 Edwin Bloch Mayer

Lewis Hamilton Meader, Jr.  
 William Pleasants Mitchell  
 Wendell Phillips Raymond  
 Albert Elmer Shaw  
 Herbert Montague Sherwood  
 Donald Leroy Stone  
 Herbert Knapp Sturdy, Jr.  
 George Francis Sykes  
 Harold Brooks Tanner  
 Frank Carter Taylor  
 Henry Richard von Bargaen  
 Charles Fletcher Warren  
 Robert Campbell Weed  
 George Franklin Weston, Jr.  
 Chauncey Earle Wheeler  
 Clarence Milton Whipple  
 Norman Harris Williams  
 Mardiros Haroutune Yorganjian  
 Hovhannés Zovigian

Agnes Gertrude Brown  
 Hazel McCrum Buckey  
 Nettie Louise Butler  
 Mary Carr Crowell  
 Helen Frances Crawshaw  
 Charlotte Christabell Delany

Ellyn Marguerite Hague  
 May Winsor Hall  
 Louise McNerney  
 Maude Bixby Nichols  
 Myra Melissa Sampson  
 Isabelle Douglas Scott

#### BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Amasa Manton Chace  
 Emerson Lawrence Chandler  
 Frank Edward Dennie  
 Harold Bowen Edmundson  
 George Henry Henderson  
 Arthur Joseph Kirley  
 John Raymond Lapham  
 Julius Lasker  
 Albert Eddy Leach  
 John Wesley Mayhew

Irving Wooster Patterson  
 Theodore Lochart Paul  
 Joseph Price  
 Donald Varnum Richardson  
 Harry Frederick Smith, Jr.  
 Guy Forney Strickler  
 Harold Anthony Sweetland  
 Charles Henry Ward, 2nd  
 Sydney Wilmot  
 Harry Draper Winsor

## BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Jarvis Howard Alger

George Henry Campbell

Earl Biddle Conklin

Robert Sylvester Curley, A.B.

Daniel Joseph Harrigan

George Thomas Huxford

Howard Kempton Jackson

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Chester Linwood Nourse

Harry Bingham Stearns

## MASTER OF ARTS

Samuel Jacob Beeber, A.B.

Frederick May Boyce

Laura Cinderella Brant, A.B.

Rose Ellen Brant, A.B.

Charles Lewis Brightman

William Ward Browne, A.B.

Nelson Clark Dale, Sc.B.

Agnes Sanborn Dana, A.B.

Hattie Maria Holt, A.B.

Milton Bicknell Hunt

Bernard Aloysius Keenan

Harold William Lyall, A.B.

Rachel Gertrude McAuliffe, A.B.

Richard Hagan Miller, Ph.B.

Clyde Rothwell Moody, A.B.

Henry Robinson Palmer, A.B.

John Hector Palmer, A.B.

Earle Winfield Peckham, A.B.

Wilmarth Young Seymour, A.B.

Sarah Ida Shapiro, Ph.B.

Eunice Clara Smith, A.B.

Beatrice Anna Sturdy, A.B.

Walter Edward Sullivan, A.B.

Leslie Earle Swain, A.B.

Raymond Frank Tift, Ph.B.

Ernest Milton Watson, Ph.B.

Alice Wilson Wilcox, A.B.

Peter Christian Augustine Worsley, A.B.

## DOCTOR OF PHILOSOPHY

Paul Franklin Clark, A.M.

THESIS: "The Relation of the Pseudodiphtheria and the Diphtheria Bacillus."

Earle Bennett Cross, A.M.

THESIS: "The Hebrew Family: A Study in Biblical Sociology."

Henry Englander, A.M.

THESIS: "The Influence of the Exodus as evidenced by the Direct and Indirect References in the Old Testament."

Frederick George Keyes, Sc.M.

THESIS: "The Condensation of Meta-nitrophenylpropionic Acid to Naphthalene Derivatives."

Chester Campbell Waters, A.M.

THESIS: "The Distribution of Knowledge: A Sociological Interpretation of the Development of Educational Theories and Practices."

## BROWN UNIVERSITY

## DEGREES OUT OF COURSE

## BACHELOR OF ARTS

Frederick Eugene Steere. *With the class of 1894*

## BACHELOR OF PHILOSOPHY

Edgar Bronson Smith. *With the class of 1878*

## MASTER OF ARTS

David Webster Hoyt. *With the class of 1855*

## HONORARY DEGREES

## MASTER OF ARTS

CLARENCE SAUNDERS BRIGHAM

## DOCTOR OF DIVINITY

CLARENCE AUGUSTUS BARBOUR

ARTHUR ROGERS

GERALD BIRNEY SMITH

## DOCTOR OF SCIENCE

CHARLES VALUE CHAPIN

WILLIAM CRAWFORD GORGAS

JOHN BROWN FRANCIS HERRESHOFF

## DOCTOR OF LETTERS

JULIA WARD HOWE

## DOCTOR OF LAWS

FREDERICK BYRON HALL

# LIST OF STUDENTS

## GRADUATES

- William Horton Albrecht *Utica, N. Y.*  
A.B. (*Brown University*) 1905. Mathematics, Astronomy. Registered candidate for A.M. *in absentia.*
- Sara MacCormack Algeo *Providence*  
A.B. (*Boston University*) 1899. Romance Languages, Economics. Registered candidate for A.M.
- Helen Allen *Fall River, Mass.*  
A.B. (*Wellesley College*) 1909. Chemistry. Registered candidate for A.M.
- Margaret Pinckney Allen *Providence*  
A.B. (*Vassar College*) 1901. Romance Languages.
- Carol Aronovici *Providence*  
Litt.B. (*Gymnasium of Bucharest*) 1898; S.A.B. (*Cornell University*) 1905. Social Science. Biology. Enrolled candidate for Ph.D.
- Charles Raymond Austin *Providence*  
A.B. (*Brown University*) 1902; A.M. 1903; Latin, Greek, English. Registered candidate for Ph.D.
- Jane Barclay *Ontario, Canada*  
Ph.B. (*Brown University*) 1903; A.M. 1904. Social Science. Registered candidate for Ph.D.
- Edith Agnes Barr *Providence*  
A.B. (*Brown University*) 1906. English. Registered candidate for A.M.
- Maxwell Barus *Providence*  
Physics, Mathematics, English. Enrolled candidate for A.M.
- Albert Arnold Bennett, Jr. *Providence*  
Mathematics, Philosophy. Enrolled candidate for A.M.
- Charles Barrows Bennett *Providence*  
Ph.B. (*Brown University*) 1906. Biology, Organic Chemistry, Bacteriology. Registered candidate for Ph.D.
- Ralph Philip Boas *Providence*  
A.B. (*Brown University*) 1908. English, Biblical Literature. Registered candidate for A.M.
- Clarence William Bosworth *Georgiaville*  
A.B. (*Brown University*) 1909. Education, Latin. Enrolled candidate for A.M.
- Louise Adams Bourne *Providence*  
A.B. (*Brown University*) 1908. Education, German, French. Enrolled candidate for A.M.
- William Alva Brady *Narragansett Pier*  
Ph.B. (*Brown University*) 1894. History, Education. Registered candidate for Ph.D.
- Henrietta Celia Brazeau *Pawtucket*  
A.B. (*Brown University*) 1906. History. Registered candidate for A.M.
- Charles Walter Briggs, Jr. *Norwich, Ct.*  
Economics, Political and Social Science. Enrolled candidate for A.M.
- Agnes Gertrude Brown *Providence*  
Ph.B. (*Brown University*) 1909. Education. Registered candidate for A.M.

William Ward Browne

*Lynn, Mass.*

A.B. (*Brown University*) 1908; A.M. 1909. Bacteriology, Comparative Anatomy. Registered candidate for Ph.D.

John Wymond Miller Bunker

*Newton Centre, Mass.*

A.B. (*Brown University*) 1909. Biology. Enrolled candidate for A.M. Registered candidate for Ph.D.

Ada Irene Burton

*Pawtucket*

A.B. (*Brown University*) 1909. Physics, Mathematics, English. Enrolled candidate for A.M.

Letitia Mabel Cahoon

*South Hyannis, Mass.*

A.B. (*Brown University*) 1905. Education, Philosophy. Registered candidate for A.M.

Samuel James Cann

*Prince Edward Island, Canada*

A.B. (*Arcadia University*) 1902; D.B. (*Newton Theological Seminary*) 1905. Philosophy, Social Science. Enrolled candidate for A.M.

Charles Augustine Carman

*Granville, Ohio*

A.B. (*Denison University*) 1909. Philosophy, History, Biblical Literature, English. Enrolled candidate for A.M.

Martha Warren Case

*Providence*

A.B. (*Brown University*) 1907. Education, History, Social Science. Registered candidate for A.M.

Robert Foster Chambers

*Providence*

Ph.B. (*Brown University*) 1909. Chemistry, Biology. Enrolled candidate for Sc.M. Registered candidate for Ph.D.

Harry Duffield Clough

*New Bedford, Mass.*

A.B. (*Brown University*) 1908. Comparative Anatomy. Enrolled candidate for A.M.

Marion Shirley Cole

*Bristol*

Ph.B. (*Brown University*) 1907. Education, English. Enrolled candidate for A.M.

Harry Wright Collins

*Pawtucket*

A.B. (*Brown University*) 1907. Education, German. Enrolled candidate for A.M.

Marjorie Stuart Comstock

*Providence*

A.B. (*Smith College*) 1907. Romance Languages.

Lillian Ruth Cosgrove

*Brockton, Mass.*

History, English, French. Enrolled candidate for A.M.

Blanche Maye Crapo

*Providence*

A.B. (*Brown University*) 1907. Social Science. Registered candidate for A.M.

Moses Leverock Crossley

*Providence*

Ph.B. (*Brown University*) 1909. Chemistry, Biology. Enrolled candidate for Sc.M. Registered candidate for Ph.D.

Mary Carr Crowell

*Warren*

Ph.B. (*Brown University*) 1909. History, Economics, French. Enrolled candidate for A.M.

Edgar James Curry

*Providence*

A.B. (*Ohio Wesleyan University*) 1901; D.B. (*Drew Theological Seminary*) 1904; A.M. (*New York University*) 1905. Philosophy, History. Registered candidate for Ph.D.

Nelson Clarke Dale

*Pittsfield, Mass.*

Sc.B. (*Middlebury College*) 1905; A.M. (*Brown University*) 1909. Geology, Chemistry. Registered candidate for Ph.D.

Agnes Sanborn Dana

*Providence*

A.B. (*Wellesley College*) 1908; A.M. (*Brown University*) 1909. Education.



## GRADUATE STUDENTS

191

- Florence Harris Danielson *Danielson, Ct.*  
A.B. (*Mt. Holyoke College*) 1909. Biology, Chemistry. Registered candidate for A.M.
- Walter William Deckard *Arlington*  
B.S. (*Rio Grande College*) 1893; A.B., B.D. (*Hillsdale College*) 1899; A.M. (*Brown University*) 1905. Social and Political Science, Philosophy. Registered candidate for Ph.D.
- Charlotte Christabell Delany *Pawtucket*  
Ph.B. (*Brown University*) 1909. History, Philosophy, English. Enrolled candidate for A.M.
- Theodore Everett Dexter *Central Falls*  
A.B. (*Brown University*) 1898. Social and Political Science. Registered candidate for A.M.
- Katherine Everett *Brook, Ind.*  
A.B. (*Brown University*) 1908. Philosophy, Psychology. Enrolled candidate for A.M. Registered candidate for Ph.D.
- Robert Franklin Field *Providence*  
A.B. (*Brown University*) 1906; A.M. 1907. Physics, Mathematics. Registered candidate for Ph.D.
- Ruth Leonard Foster *Providence*  
A.B. (*Brown University*) 1908. Education, English. Enrolled candidate for A.M.
- Robert Jaquith Fuller *No. Attleboro, Mass.*  
A.B. (*Brown University*) 1898. Education, Social and Political Science. Registered candidate for A.M.
- Louis John Gillespie *Manchester, N. H.*  
Ph.B. (*Brown University*) 1908. Bacteriology, Physics. Registered candidate for Ph.D.
- Cardinal Leonidas Goodwin *Lyndonville, Vt.*  
A.B. (*Brown University*) 1905. History. Enrolled candidate for A.M. *in absentia*.
- Mary Amelia Gorman *Providence*  
A.B. (*Brown University*) 1908. Education. Registered candidate for A.M.
- Grover Graham *Fredericktown, Mo.*  
A.B. (*William Jewell College*) 1909. Social and Political Science, History. Enrolled candidate for A.M. Registered candidate for Ph.D.
- Albert Angus Griffin *Wickford*  
A.B. (*Brown University*) 1897. Education.
- Irma Alida Gyllenberg *Providence*  
A.B. (*Brown University*) 1909. Education.
- Ernest Russell Hager *Auburn*  
A.B. (*Brown University*) 1909. Education, Psychology, Social Science. Enrolled candidate for A.M.
- Benjamin Louis Antoine Hénin *France*  
B. ès L. (*University of France*) 1889; LL.B. 1890; Academy Officer, 1907. Education, Romance Languages, English. Enrolled candidate for A.M.
- Joseph Berry Keenan *Pawtucket*  
History, Social and Political Science. Enrolled candidate for A.M.
- William Oded Keirstead *New Brunswick, Canada*  
A.B. (*Bates College*) 1906; A.B. (*Yale College*) 1907; A.M. 1908. Sociology.
- Frank Edwin Lakey *Allston, Mass.*  
A.B. (*Brown University*) 1894; A.M. 1900. Education, Social and Political Science. Registered candidate for Ph.D.

- Alice Gertrude Langford *Fall River, Mass.*  
A.B. (*Smith College*) 1909. Education, Psychology, Philosophy. Registered candidate for A.M.
- Irene Lydia Laraway *Providence*  
A.B. (*Brown University*) 1909. Education. Registered candidate for A.M.
- Harold William Lyall *Lawrence, Mass.*  
A.B. (*Brown University*) 1908; A.M. 1909. Bacteriology, Physiology. Registered candidate for Ph.D.
- Margaret Currier Lyon *Providence*  
A.B. (*Brown University*) 1909. Education. Registered candidate for A.M.
- Minnie Catherine Mahy *Providence*  
A.B. (*Brown University*) 1900; A.M. (*University of Nebraska*) 1901; A.M. (*Brown University*) 1906. English. Registered candidate for Ph.D.
- Charles Frederick Marks *La Grange, Mo.*  
A.B. (*La Grange College*) 1903. English, Education. Enrolled candidate for A.M.
- James Cook Martin *Brooklyn, N. Y.*  
Ph.B. (*Brown University*) 1908. Geology, Chemistry. Registered candidate for Ph.D.
- Paul Matteson *Providence*  
A.B. (*Brown University*) 1906. Geology, Botany. Registered candidate for A.M.
- Jacob Alexander Mattuck *Worcester, Mass.*  
Ph.B. (*Brown University*) 1904; A.M. 1905. Social and Political Science. Enrolled candidate for Ph.D.
- Elise Emeline McCausland *Providence*  
A.B. (*Brown University*) 1909. Education. Registered candidate for A.M.
- Louis Augustine McCoy *Pawtucket*  
A.B. (*Brown University*) 1909. Education, French, History. Enrolled candidate for A.M.
- Omar Roscoe McCoy *Jackson, Miss.*  
A.B. (*Brown University*) 1909. Education, Social Science. Registered candidate for A.M. *in absentia*.
- Robert McBurney Mitchell *Providence*  
A.B. (*University of Chicago*) 1903. Germanic Literature, English Literature. Registered candidate for Ph.D.
- Edmund Everett Moffett *Saylesville*  
Physics, Chemistry, Astronomy. Registered candidate for M.S.
- Allam Burton Morton *Atlanta, Ga.*  
A.B. (*Brown University*) 1894; A.M. 1895. Mathematics.
- George Barrows Obear *Lynn, Mass.*  
Sc.B. (*Massachusetts Institute of Technology*) 1903; Sc.M. (*Brown University*) 1905. Physics, Mathematics. Enrolled candidate for Ph.D.
- Alfred John Olsen, Jr. *Providence*  
Ph.B. (*Brown University*) 1908. Education, Chemistry. Enrolled candidate for A.M.
- Stephen David Paddock *Providence*  
History, Political Science and Economy, Mathematics. Enrolled candidate for A.M.
- John Hector Palmer *Prince Edward Island, Canada*  
A.B. (*Brown University*) 1904; A.M. 1909. Biblical Literature. Registered candidate for Ph.D.

## GRADUATE STUDENTS

193

- Thomas Richard Peede *Amherst, N. S.*  
Ph.B. (*Amity College*) 1885; A.M. (*Brown University*) 1908. Education, Philosophy, Biology. Registered candidate for Ph.D.
- Eliza Metcalf Peirce *Providence*  
A.B. (*Smith College*) 1889; A.M. (*Brown University*) 1899. English.
- Katherine Upham Peirce *Providence*  
A.B. (*Vassar College*) 1889. History. Registered candidate for A.M.
- Fred Hale Pierce *Danielson, Ct.*  
A.B. (*Brown University*) 1908. Education, Social Science. Registered candidate for A.M. in absentia.
- Margareth Arnold Pitman *Providence*  
A.B. (*Smith College*) 1907. German.
- Elmer Jeremiah Rathbun *Providence*  
A.B. (*Brown University*) 1896; LL.B. (*Boston University*) 1898. History. Registered candidate for A.M.
- Frederick Henry Read *Oaklawn*  
Sc.B. (*Massachusetts Agricultural College*) 1896. Education.
- Charles Carroll Richardson *Valley Falls*  
A.B. (*Colby College*) 1887. Education. Registered candidate for A.M.
- Ethel Fanning Riley *Providence*  
A.B. (*Brown University*) 1909. Education. Registered candidate for A.M.
- Alberti Roberts *West Coxsachie, N. Y.*  
A.B. (*Brown University*) 1909. Education. Registered candidate for A.M.
- Mary Louise Rogers *Pawtucket*  
A.B. (*Wellesley College*) 1898; A.M. (*Brown University*) 1902. English.
- Sarah Gridley Ross *Cortland, N. Y.*  
A.B. (*Brown University*) 1905. English. Registered candidate for A.M.
- William Nisbet Ross *Providence*  
A.B. (*Brown University*) 1907; A.M. 1908. Chemistry.
- Ethel Ida Rowand *East Providence*  
A.B. (*Brown University*) 1907. English, History. Enrolled candidate for A.M.
- Robert Clark Sanger *Franklin, N. H.*  
A.B. (*Brown University*) 1896. Social Science, Philosophy. Enrolled candidate for A.M.
- Louise Schutz *Providence*  
A.B. (*Brown University*) 1907; A.M. 1908. English.
- John Smith Shippee *East Greenwich*  
A.B. (*Brown University*) 1894. Latin, Greek. Enrolled candidate for Ph.D.
- Lester Burrill Shippee *Providence*  
A.B. (*Brown University*) 1903; A.M. 1904. History, Political Science. Registered candidate for Ph.D.
- Walter Cyrus Sherman *Providence*  
A.B. (*Brown University*) 1897. History, English. Enrolled candidate for A.M.
- Cora Edna Sisson *Wickford*  
B.S. (*Rhode Island College*) 1909. Biology, Geology, Chemistry. Enrolled candidate for A.M.

- James Smalley, Jr. *Fall River, Mass.*  
Education, Social and Political Science, Chemistry. Enrolled candidate for A.M.
- Alfred Felton Smead *Greenfield, Mass.*  
Sc.B. (*Tufts College*) 1906. Education.
- David Wilkinson Smith *Manville*  
A.B., A.M. (*Brown University*) 1907. Latin, Greek. Enrolled candidate for Ph.D.
- George Hathorn Smith *Meredith, N. H.*  
A.B. (*Bates College*) 1909. Biology, Philosophy. Enrolled candidate for A.M.
- Margaret Bingham Stillwell *Pawtucket*  
A.B. (*Brown University*) 1909. Romance Languages. Registered candidate for A.M.
- Walter Edward Sullivan *Houlton, Me.*  
A.B. (*Bates College*) 1907; A.M. (*Brown University*) 1909. Zoölogy, Bacteriology. Registered candidate for Ph.D.
- Alvin Swindell *Kaufman, Tex.*  
A.B. (*Baylor University*) 1909. Biblical Literature, Social and Political Science, Philosophy. Enrolled candidate for A.M.
- George Francis Sykes *Suffield, Ct.*  
Ph.B. (*Brown University*) 1909. Biology, Philosophy, Chemistry. Enrolled candidate for A.M.
- Sarah Ellen Taylor *Lonsdale*  
A.B. (*Brown University*) 1904. English, German. Enrolled candidate for A.M.
- Roy Towne *Valley Falls*  
A.B. (*Brown University*) 1905. Education, Greek. Enrolled candidate for A.M. *in absentia*.
- Henry Carroll Tracy *Whitman, Mass.*  
A.B. (*Dartmouth College*) 1902; A.M. (*Brown University*) 1905. Comparative Anatomy, Organic Chemistry, Physiology. Enrolled candidate for Ph.D.
- Frederick Louis Trover *Beaver Falls, Pa.*  
Education, History, Social Science. Enrolled candidate for A.M.
- Eleanor Stuart Upton *Providence*  
A.B. (*Smith College*) 1909. Social Science, Art, English. Enrolled candidate for A.M.
- Robert Campbell Weed *Providence*  
Ph.B. (*Brown University*) 1909. Chemistry, Physics, Mathematics. Enrolled candidate for A.M. Registered candidate for Ph.D.
- Arthur Lincoln Young *Uxbridge, Mass.*  
A.B. (*Brown University*) 1904. Education, Chemistry. Registered candidate for A.M.
- Hovhannés Zovigian *Pawtucket*  
Ph.B. (*Brown University*) 1909. Chemistry, Biology. Enrolled candidate for A.M. Registered candidate for Ph.D.

## SENIORS : CLASS OF 1910

| NAME                         | RESIDENCE                |
|------------------------------|--------------------------|
| Kenneth Field Albee          | <i>Wollaston, Mass.</i>  |
| James Madison Aldrich        | <i>Springfield, Vt.</i>  |
| Richard Day Allen            | <i>Pawtucket</i>         |
| Paul George Wilfred Anderson | <i>Roslindale, Mass.</i> |

## SENIORS : CLASS OF 1910

195

## NAME

## RESIDENCE

|                                |                               |
|--------------------------------|-------------------------------|
| William Coggeshall Anthony     | <i>South Portsmouth</i>       |
| Carl Winslow Atwood            | <i>Waltham, Mass.</i>         |
| Donald Sturges Babcock         | <i>Providence</i>             |
| Gaius Humphrey Barrett         | <i>Waterford, Ct.</i>         |
| Maxwell Barus                  | <i>Providence</i>             |
| Albert Arnold Bennett, Jr.     | <i>Providence</i>             |
| Joseph Eli Bliss               | <i>Providence</i>             |
| Afley Leonel Brett             | <i>South Braintree, Mass.</i> |
| Charles Walter Briggs, Jr.     | <i>Norwich, Ct.</i>           |
| Harold Parker Brown            | <i>Providence</i>             |
| William Bailey Bruce           | <i>Warrenton, N. C.</i>       |
| Harold Stephen Bucklin         | <i>Pawtucket</i>              |
| Walter Chester Cameron         | <i>Auburn</i>                 |
| Earle Francis Caton            | <i>Edgewood</i>               |
| Leonidas Franklin Clark        | <i>Herkimer, N. Y.</i>        |
| Richard Alexander Colmetz      | <i>Providence</i>             |
| Andrew Burroughs Comstock      | <i>Providence</i>             |
| Willis Garrett Conant          | <i>Dover, N. J.</i>           |
| Herman Copeland                | <i>Providence</i>             |
| Allan David Creelman           | <i>Suffield, Ct.</i>          |
| Joseph Henry Cull              | <i>Providence</i>             |
| Henry Chester Damon            | <i>Fall River, Mass.</i>      |
| Roy Tasco Davis                | <i>Ewing, Mo.</i>             |
| Arthur Daniel Draper           | <i>Rochdale, Mass.</i>        |
| Albert Farnsworth              | <i>Lawrence, Mass.</i>        |
| John Prescott Farnsworth, Jr.  | <i>Providence</i>             |
| Ralph Beach Farnum             | <i>Providence</i>             |
| Albert Potter Farwell          | <i>Providence</i>             |
| Raymond Edward Fenner          | <i>Providence</i>             |
| John Howard Forrist            | <i>Providence</i>             |
| William Belfield Freeman       | <i>Providence</i>             |
| Everett Percy Frohock          | <i>Camden, Me.</i>            |
| William Edward Gannon          | <i>New York, N. Y.</i>        |
| Walter Edward Goodwin          | <i>Taunton, Mass.</i>         |
| John Lawrence Gorman           | <i>Ballston Spa, N. Y.</i>    |
| Raymond Keyes Gould            | <i>East Greenwich</i>         |
| Winfield Wardwell Greene       | <i>South Weymouth, Mass.</i>  |
| James Alexander Hall           | <i>Providence</i>             |
| Arthur Mathias Ham             | <i>Winter Hill, Mass.</i>     |
| John Patrick Hartigan          | <i>Providence</i>             |
| Walter Brooks Henderson        | <i>Jamaica, West Indies</i>   |
| John Collins Aloysius Hennessy | <i>Brooklyn, N. Y.</i>        |
| Henry Horace Hibbs, Jr.        | <i>Williamsburg, Ky.</i>      |



| NAME                         | RESIDENCE                     |
|------------------------------|-------------------------------|
| Albert Wallace Hills         | <i>South Columbus, Miss.</i>  |
| Norman Edward Holt           | <i>Providence</i>             |
| Earle Moulton Horton         | <i>Providence</i>             |
| Elmer Stuart Horton          | <i>Providence</i>             |
| Paul Balcom Howland          | <i>Providence</i>             |
| Roland Ellis Hutchins        | <i>Stoneham, Mass.</i>        |
| Will Clarence Ingalls, Jr.   | <i>Arlington, N. J.</i>       |
| Malcolm Royce Jeffris        | <i>Jonesville, Wis.</i>       |
| Warren Clifford Johnson      | <i>Boston, Mass.</i>          |
| Lloyd Wadleigh Josselyn, Jr. | <i>Bridgewater, Mass.</i>     |
| Seth Maurice Kalberg         | <i>New Britain, Ct.</i>       |
| Joseph Berry Keenan          | <i>Pawtucket</i>              |
| George Holmes Kelley         | <i>Providence</i>             |
| William Hardy Kent           | <i>Providence</i>             |
| Maxwell Krause               | <i>Lebanon, Pa.</i>           |
| Harold Dane L'Amoureux       | <i>Pawtucket</i>              |
| Harry Badger Lane            | <i>New Haven, Ct.</i>         |
| William Harkins Lynn         | <i>Providence</i>             |
| Gough Decatur McDaniels      | <i>Baltimore, Md.</i>         |
| Harold St. Clair McIntosh    | <i>Providence</i>             |
| Frank Le Forrest Mansur      | <i>Bradford, Mass.</i>        |
| Edward Holton Mason, Jr.     | <i>Providence</i>             |
| James Matthias Mercer        | <i>Montville, Ct.</i>         |
| Keith Mercer                 | <i>Providence</i>             |
| Merritt Manville Meredith    | <i>Atlantic, Ia.</i>          |
| Benjamin Dwight Miller       | <i>Newton Centre, Mass.</i>   |
| Edmond Everett Moffett       | <i>Saylesville</i>            |
| Ernest Mariett Morris        | <i>Fall River, Mass.</i>      |
| William Dexter Morrill       | <i>Lynn, Mass.</i>            |
| John Henry Morrissey, Jr.    | <i>Bristol</i>                |
| Alexander Wickliffe Muir     | <i>Newton, N. J.</i>          |
| Robert Lewis Munson          | <i>South Dartmouth, Mass.</i> |
| Warren Carney Norton         | <i>Portland, Me.</i>          |
| William Charles Oakes        | <i>Ischua, N. Y.</i>          |
| Frank Joseph O'Donnell       | <i>Bridgewater, Mass.</i>     |
| Harry Lees Oldfield          | <i>Saylesville</i>            |
| Henry Bernard O'Neil         | <i>Keene, N. H.</i>           |
| Joseph Edwin Oslin           | <i>Providence</i>             |
| Stephen David Paddock        | <i>Providence</i>             |
| Ralph Mallory Palmer         | <i>Providence</i>             |
| Albert Nathaniel Peterson    | <i>Providence</i>             |
| George Luther Pierce, Jr.    | <i>Providence</i>             |
| Charles Addison Post         | <i>Clinton, Ct.</i>           |

## SENIORS : CLASS OF 1910

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## NAME

## RESIDENCE

|                          |                                 |
|--------------------------|---------------------------------|
| Winfield Cary Potter     | <i>Central Falls</i>            |
| Stephen Donald Pyle, Jr. | <i>Brooklyn, N. Y.</i>          |
| Carl Ruehl Raquet        | <i>Newark, N. J.</i>            |
| Ralph Weeden Reckling    | <i>Narragansett Pier</i>        |
| Clarence Richards        | <i>Providence</i>               |
| George Arthur Round      | <i>Norton, Mass.</i>            |
| Lester Angell Round      | <i>Clayville</i>                |
| Isaac Sylvester Rowe     | <i>Newton Centre, Mass.</i>     |
| Robert Aloysius Scally   | <i>Stoneham, Mass.</i>          |
| Robert Francis Seybolt   | <i>West New Brighton, N. Y.</i> |
| Edward John Shaeffer     | <i>Ballston Spa, N. Y.</i>      |
| Israel Remington Sheldon | <i>Pawtuxet</i>                 |
| James Chute Simpson      | <i>Dorchester, Mass.</i>        |
| James Smalley, Jr.       | <i>Fall River</i>               |
| Bertram Smith            | <i>Hillsboro Bridge, N. H.</i>  |
| Edward Sheldon Spicer    | <i>Providence</i>               |
| Harold Avery Swaffield   | <i>Lawrence, Mass.</i>          |
| William Sheldon Sweet    | <i>Providence</i>               |
| Thomas Russell Symmes    | <i>Stoneham, Mass.</i>          |
| Howard Alfred Taber      | <i>Providence</i>               |
| Eddy Warren Tandy        | <i>Gardner, Mass.</i>           |
| Henry Bangs Thacher      | <i>Brockton, Mass.</i>          |
| Fred Louis Trover        | <i>Beaver Falls, Pa.</i>        |
| Clifton Henry Walcott    | <i>Leominster, Mass.</i>        |
| Lawrence Sidney Walker   | <i>Providence</i>               |
| Edward Walter Wall       | <i>Easthampton, Mass.</i>       |
| Clifton Berkely Ward     | <i>Middletown</i>               |
| Henry Max Webber         | <i>Hillsboro Bridge, N. H.</i>  |
| Franklin Lyron Wheeler   | <i>Shelton, Ct.</i>             |
| Harold Leslie Wheeler    | <i>Watertown, Mass.</i>         |
| Earl Herbert Williams    | <i>Auburn</i>                   |
| Ralph Henry Wilmarth     | <i>Attleboro, Mass.</i>         |
| Alan Jewett Young        | <i>Newton Centre, Mass.</i>     |

## JUNIORS : CLASS OF 1911

|                           |                       |
|---------------------------|-----------------------|
| Edward Bartlett Allen     | <i>Warwick</i>        |
| John Albert Anderson      | <i>Providence</i>     |
| Paul Appleton             | <i>Providence</i>     |
| James Coutts Archie       | <i>Westerly</i>       |
| Earle Bernon Arnold       | <i>North Scituate</i> |
| Herbert Remington Ayler   | <i>Portsmouth</i>     |
| Vernon Edgar Babington    | <i>Cranston</i>       |
| Matthias Wisen Baker, Jr. | <i>Providence</i>     |

| NAME                           | RESIDENCE                   |
|--------------------------------|-----------------------------|
| Charles Archilaus Barry        | <i>Port Huron, Mich.</i>    |
| Joshua Beliaevsky              | <i>Providence</i>           |
| Edgar Paul Bengert             | <i>Cleveland, Ohio</i>      |
| Robert Wellington Bingham, Jr. | <i>East Haddam, Ct.</i>     |
| Raymond Wilson Bissell         | <i>Salem, Mass.</i>         |
| Earle Francis Bliss            | <i>Attleboro, Mass.</i>     |
| Harold Borden Bliss            | <i>Barrington</i>           |
| Edwin Carpenter Bosworth       | <i>Foxboro, Mass.</i>       |
| Andrew Lyndon Breckenridge     | <i>Providence</i>           |
| John Bernard Brennan, Jr.      | <i>Providence</i>           |
| Wendell Stimpson Brown         | <i>Providence</i>           |
| Franklin Abbott Buck           | <i>Mansfield, Mass.</i>     |
| Henry Morgan Burke             | <i>Providence</i>           |
| Hudson Coe Burr                | <i>Plainfield, N. J.</i>    |
| Chester Thomas Calder          | <i>Providence</i>           |
| Robert Henry Munson Canfield   | <i>Bridgeport, Ct.</i>      |
| Everett Shearman Carpenter     | <i>Cumberland</i>           |
| Benjamin Harold Cate           | <i>Providence</i>           |
| Clifford John Cawley           | <i>Providence</i>           |
| Herbert Frederick Cawthorne    | <i>Leominster, Mass.</i>    |
| Linwood Collins Chase          | <i>Plainville, Mass.</i>    |
| Robert Dexter Chase            | <i>Pawtucket</i>            |
| John Osborne Chesley           | <i>Providence</i>           |
| Chester Irving Christie        | <i>New York, N. Y.</i>      |
| Arthur Chessman Clark          | <i>Newton Centre, Mass.</i> |
| John Clarence Clark            | <i>Little Falls, N. Y.</i>  |
| Clarence Sawyer Cleasby        | <i>Providence</i>           |
| Louis Robinson Collins         | <i>Laconia, N. H.</i>       |
| Morris Ferguson Conant         | <i>Pawtucket</i>            |
| Herbert Ray Connor             | <i>Alameda, Cal.</i>        |
| Henry Conyers                  | <i>Arlington</i>            |
| Alfred Elwood Corp             | <i>Providence</i>           |
| Philip Chadsey Curtis          | <i>Pawtucket</i>            |
| Earl Balcom Dane               | <i>Providence</i>           |
| Earl Philip Dawley             | <i>Providence</i>           |
| Silas Benjamin Dishman, Jr.    | <i>Barbourville, Ky.</i>    |
| Earl Raymond Donle             | <i>Providence</i>           |
| Edwin Arthur Dow               | <i>Eden Park</i>            |
| Joseph Ferretti Driscoll       | <i>Ballston Spa, N. Y.</i>  |
| Frank Otis Drowne              | <i>Pawtucket</i>            |
| Herbert Eddy Easton            | <i>Central Falls</i>        |
| James Henry Eldredge           | <i>East Greenwich</i>       |
| John Ervin, Jr.                | <i>Pawtucket</i>            |

## JUNIORS: CLASS OF 1911

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| NAME                         | RESIDENCE                   |
|------------------------------|-----------------------------|
| Ernest Sherman Fitz          | <i>Saylesville</i>          |
| Herbert Briggs Francis       | <i>Taunton, Mass.</i>       |
| Michael Henry Gallagher      | <i>Wellesley, Mass.</i>     |
| Lawrence Gardner             | <i>Portland, Me.</i>        |
| Robert Nichols Gardner       | <i>Portland, Me.</i>        |
| Guy Harold Gifford           | <i>Providence</i>           |
| William Clement Giles        | <i>Springfield, Mass.</i>   |
| Matthew Gormly, Jr.          | <i>Providence</i>           |
| Ernest Linwood Gray          | <i>North Fairfield, Me.</i> |
| Allan Westcott Greene        | <i>Barrington</i>           |
| Augustus Joseph Hampton      | <i>Pawtucket</i>            |
| Walter Gardiner Harrington   | <i>Providence</i>           |
| Herman Hartwell Haskins      | <i>Winchester, Mass.</i>    |
| Wright David Heydon          | <i>Centreville</i>          |
| Jacob Freeman High           | <i>Bedminster, Pa.</i>      |
| John Edward Hinckley         | <i>Barnstable, Mass.</i>    |
| Samuel Morey Holman, Jr.     | <i>Attleboro, Mass.</i>     |
| Jacob Mark Howarth           | <i>Swansea, Mass.</i>       |
| Harry Robinson Howe          | <i>Mansfield, Mass.</i>     |
| Paul Denckla Howe            | <i>Philadelphia, Pa.</i>    |
| Howard Greenough Hubbard     | <i>Providence</i>           |
| Earl Edmund Jackson          | <i>Providence</i>           |
| Seward Thompson Jarvis       | <i>Somerville, Mass.</i>    |
| Frederic Marshall Jencks     | <i>West Barrington</i>      |
| Clare Steele Johnston        | <i>Buffalo, N. Y.</i>       |
| Cedric Freeman Joslin        | <i>Portland, Me.</i>        |
| John Vincent Keily           | <i>Providence</i>           |
| Arthur Kiernan               | <i>Providence</i>           |
| John Baptist Kindelan        | <i>New York, N. Y.</i>      |
| Charles Manton King          | <i>Mt. Hermon, Mass.</i>    |
| Ira Winsor Knight            | <i>Auburn</i>               |
| James Charles Larkin         | <i>Pittsfield, Mass.</i>    |
| Samuel May Lederer           | <i>Providence</i>           |
| Charles Leon Leland          | <i>Grafton, Mass.</i>       |
| Warren Bliss Luther          | <i>Attleboro, Mass.</i>     |
| James Russell McKay          | <i>Youngstown, Ohio</i>     |
| Percy Douglas McPhee         | <i>Newton, Mass.</i>        |
| Robert James Yorkston Meckel | <i>St. Louis, Mo.</i>       |
| Mark Mohler                  | <i>Los Angeles, Cal.</i>    |
| John McGill Montz            | <i>Charlottesville, Va.</i> |
| George Denny Moore           | <i>Cheswold, Del.</i>       |
| Courtland Sawin Mudge        | <i>Providence</i>           |
| Harold Edward Muir           | <i>Newton, N. J.</i>        |

| NAME                       | RESIDENCE                  |
|----------------------------|----------------------------|
| Frederick Leo Mulcahy      | <i>Lawrence, Mass.</i>     |
| George Francis Murnan      | <i>Herkimer, N. Y.</i>     |
| Robert Cushman Murphy      | <i>Mt. Sinai, N. Y.</i>    |
| Joseph Serpa Neves         | <i>Providence</i>          |
| Lewis Alfred Newfield      | <i>Brooklyn, N. Y.</i>     |
| Christopher Aloysius Nolan | <i>Providence</i>          |
| James Timothy O'Neil       | <i>Amesbury, Mass.</i>     |
| Harry Alfred Ormes         | <i>Upton, Mass.</i>        |
| Arthur Palmer              | <i>Grand Rapids, Mich.</i> |
| Harry Arthur Pantanius     | <i>Morristown, N. J.</i>   |
| Samuel Ryder Parks         | <i>Pawtucket</i>           |
| Beverly Francis Perry      | <i>Syracuse, N. Y.</i>     |
| Irving Wilbert Pettengill  | <i>Haverhill, Mass.</i>    |
| Thomas Aquinas Pickett     | <i>Bridgewater, Mass.</i>  |
| Leroy Gardiner Pilling     | <i>Providence</i>          |
| David James Purdie         | <i>Providence</i>          |
| Thomas Henry Quigley       | <i>Taunton, Mass.</i>      |
| Joseph Ernest Raia         | <i>Providence</i>          |
| David Albert Reid          | <i>Providence</i>          |
| Royal Paul Richardson      | <i>Dighton, Mass.</i>      |
| Thomas Howard Roalf        | <i>Keene, N. H.</i>        |
| Roger Sherman Robinson     | <i>Laconia, N. H.</i>      |
| Fremont Emerson Roper      | <i>Riverpoint</i>          |
| Julius Adolph Saacke       | <i>Providence</i>          |
| John William Seaton        | <i>Utica, N. Y.</i>        |
| Judah Semonoff             | <i>Providence</i>          |
| Robert Godfrey Shaw        | <i>Providence</i>          |
| Lewis Alexander Shepherd   | <i>Springfield, Mass.</i>  |
| Warren Andrew Sherman      | <i>Providence</i>          |
| Charles Peck Sisson        | <i>Providence</i>          |
| Russell Eyre Sisson        | <i>Providence</i>          |
| Schuyler Merritt Skelding  | <i>Stamford, Ct.</i>       |
| Robert Fulton Skillings    | <i>Portland, Me.</i>       |
| Brenton Greene Smith       | <i>New York, N. Y.</i>     |
| Warren Hutchinson Smith    | <i>Lincoln</i>             |
| Arthur Edgar Staff         | <i>Campello, Mass.</i>     |
| Woodbury Sweetzer Stowell  | <i>Bristol</i>             |
| George Christian Stucker   | <i>Providence</i>          |
| George Frederick Swanson   | <i>Boston, Mass.</i>       |
| Albert Whitman Sweet       | <i>Providence</i>          |
| Wendell Richardson Swint   | <i>East Boston, Mass.</i>  |
| Raymond Samuel Taylor      | <i>Monohan, Wash.</i>      |
| Erwin Clayberg Tompkins    | <i>Avon, Ill.</i>          |



# JUNIORS : CLASS OF 1911

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| NAME                    | RESIDENCE                 |
|-------------------------|---------------------------|
| Harold Wallace          | <i>Chicago, Ill.</i>      |
| David Fogg Watson, Jr.  | <i>Bridgeport, Ct.</i>    |
| Morris Jacob Wessel     | <i>Port Norris, N. J.</i> |
| Joseph Timothy Witherow | <i>Pawtucket</i>          |
| Allen Arthur Wood       | <i>Providence</i>         |
| Ellis Laurie Yatman     | <i>Providence</i>         |
| Foster Verne Young      | <i>Aylesford, N. S.</i>   |
| Joseph Zarmon           | <i>Paterson, N. J.</i>    |

# SOPHOMORES : CLASS OF 1912

|                             |                            |
|-----------------------------|----------------------------|
| Edward August Adams         | <i>Fort Dodge, Ia.</i>     |
| Herbert Engles Adams        | <i>Provincetown, Mass.</i> |
| Richard Jay Adams           | <i>Bloomfield, N. J.</i>   |
| Walter Lewis Allen          | <i>Providence</i>          |
| Howard Baker Andrews        | <i>Providence</i>          |
| Ryland Benjamin Andrews     | <i>Leominster, Mass.</i>   |
| Willard Bullock Anthony     | <i>Providence</i>          |
| Charles Fulda Archambault   | <i>Arctic</i>              |
| Clarence Edwin Ayres        | <i>Westfield, Mass.</i>    |
| Ernest Stratton Barker      | <i>New York, N. Y.</i>     |
| Harold Oakley Barker        | <i>Stamford, Ct.</i>       |
| Frank Clifford Barrows, Jr. | <i>New Bedford, Mass.</i>  |
| Kenly Smith Bell            | <i>East Orange, N. J.</i>  |
| Harvey Earl Bingham         | <i>Quaker Hill, Ct.</i>    |
| Stuart Blake                | <i>Lonsdale</i>            |
| Edward Payson Blanchard     | <i>Linwood, Mass.</i>      |
| Eastwood Howard Boardman    | <i>Central Falls</i>       |
| Harold Schenck Borden-Smith | <i>Salem, N. Y.</i>        |
| George William Brewster     | <i>Auburndale, Mass.</i>   |
| Daniel Lucius Brown         | <i>Norwich, Ct.</i>        |
| John Watson Brown           | <i>Providence</i>          |
| Arthur Francis Buddington   | <i>West Mystic, Ct.</i>    |
| Hermon Carey Bumpus, Jr.    | <i>New Rochelle, N. Y.</i> |
| Frederick Burgess, Jr.      | <i>Garden City, N. Y.</i>  |
| George Sargent Burgess      | <i>Portland, Me.</i>       |
| Warren Randolph Burgess     | <i>Providence</i>          |
| Carl Edmond Burnham         | <i>Pawtucket</i>           |
| Leroy Francis Burroughs     | <i>Pawtucket</i>           |
| Edgar Gibson Buzzell        | <i>Chicago, Ill.</i>       |
| Robert Gamble Caswell       | <i>Wakefield</i>           |
| Kipp Ingersoll Chace        | <i>Flatbush, N. Y.</i>     |
| Ralph Harold Chadwick       | <i>Hillsboro, N. H.</i>    |
| Adolph Odin Christianson    | <i>Boston, Mass.</i>       |

| NAME                        | RESIDENCE                      |
|-----------------------------|--------------------------------|
| Walter Irving Clark         | <i>North Attleboro, Mass.</i>  |
| Alfred Samuel Cloues        | <i>Warner, N. H.</i>           |
| George Raymond Cobb         | <i>Pawtucket</i>               |
| Leo Cohen                   | <i>Providence</i>              |
| Sheldon Chalkley Collins    | <i>Great Barrington, Mass.</i> |
| Raymond Carpenter Colwell   | <i>Olneyville</i>              |
| Joseph Harrison Conzelman   | <i>Bristol, Ct.</i>            |
| Herbert Leonard Cook        | <i>Woonsocket</i>              |
| Douglas Duval Corning       | <i>Lynn, Mass.</i>             |
| James Lloyd Crawshaw        | <i>Providence</i>              |
| Everett Thomas Cripps       | <i>Providence</i>              |
| Lloyd Roswell Cummings      | <i>Bradford, N. H.</i>         |
| William Walter Cummings     | <i>Providence</i>              |
| Ernest Merrill Daland       | <i>Wakefield, Mass.</i>        |
| William Learned Dealey      | <i>Providence</i>              |
| Robert Cloutman Dexter      | <i>Dorchester, Mass.</i>       |
| William Hovey Dinkins       | <i>Selma, Ala.</i>             |
| William Earl Dodge          | <i>Block Island</i>            |
| Lionel Victor Domin         | <i>Providence</i>              |
| Daniel Gerald Donovan       | <i>Providence</i>              |
| Ralph Sherwin Drury         | <i>Fitchburg, Mass.</i>        |
| William James Dwyer         | <i>Providence</i>              |
| Adelbert Charles Eastburn   | <i>Yonkers, N. Y.</i>          |
| James Cornelius Elms, Jr.   | <i>East Orange, N. J.</i>      |
| Walter Johnson Emmons       | <i>Arlington</i>               |
| Theodore Bryant Farnsworth  | <i>Providence</i>              |
| Orrin Robinson Ferry        | <i>Whitinsville, Mass.</i>     |
| Thomas Lester Fletcher      | <i>Chardon, Ohio</i>           |
| Paul Hart Francis           | <i>Providence</i>              |
| Clarence Frank Gifford      | <i>Danielson, Ct.</i>          |
| John Joseph Gilbert         | <i>Woonsocket</i>              |
| Willard Fremont Gordon, Jr. | <i>Hermanville, Miss.</i>      |
| Max Louis Grant             | <i>Providence</i>              |
| Abraham Harry Gretsches     | <i>New York, N. Y.</i>         |
| Joseph Dydime Guillemette   | <i>Pawtucket</i>               |
| Edwin Rogers Handy          | <i>Manville</i>                |
| Wallace Elmer Harris        | <i>Providence</i>              |
| Raymond Preston Hawes       | <i>Riverside</i>               |
| Hoey Hennessy               | <i>Brooklyn, N. Y.</i>         |
| Rodney Williams Hewitt      | <i>Lebanon, Ct.</i>            |
| Guy Reynolds Hicken         | <i>Newburyport, Mass.</i>      |
| Clifford Dean Hindle        | <i>Central Falls</i>           |
| John Sprague Hodgson        | <i>Enfield</i>                 |

## NAME

## RESIDENCE

|                                  |                                  |
|----------------------------------|----------------------------------|
| Preston Hart Hood                | <i>Fall River, Mass.</i>         |
| Hawthorne Howland                | <i>Pawtucket</i>                 |
| Clifton Morse Hull               | <i>Edgewood</i>                  |
| Karl Humphrey                    | <i>Providence</i>                |
| Ralph Gibney Hurlin              | <i>Antrim, N. H.</i>             |
| Walter Wade Jackson              | <i>Woodward, S.C.</i>            |
| Wellington LeRoy Jencks          | <i>Providence</i>                |
| Howard Prann Jones               | <i>Suffield, Ct.</i>             |
| Avedis Alexander Kalajian        | <i>Providence</i>                |
| George Valentine Kendall         | <i>St. Louis, Mo.</i>            |
| Lowell Clapp Kendrick            | <i>Hempstead, N. Y.</i>          |
| Harry Willey Kenney              | <i>Arlington</i>                 |
| Charles Roland Klebes            | <i>West Coxsackie, N. Y.</i>     |
| Archibald Collins Ladner         | <i>Springfield, Mass.</i>        |
| George Woodward Langdon          | <i>Newburyport, Mass.</i>        |
| Royal Willis Leith               | <i>Lowell, Mass.</i>             |
| Joseph H. McCormick              | <i>Providence</i>                |
| Jerome Francis Joseph McGehearty | <i>Providence</i>                |
| John Francis McLaughlin          | <i>Providence</i>                |
| Howard Gove MacMillan            | <i>Mapleville</i>                |
| Dennis Robert Mahoney            | <i>Newton, Mass.</i>             |
| Charles Ambrose Malloy           | <i>Lambertville, N. J.</i>       |
| Wiley Hammond Marble             | <i>Worcester, Mass.</i>          |
| Henry Gildersleeve Marsh         | <i>Providence</i>                |
| Stanley Pearsall Marsh           | <i>Westfield, N. J.</i>          |
| Romeo Raoul Martel               | <i>Pawtucket</i>                 |
| Lewis Leroy Mellor               | <i>Guilford, Me.</i>             |
| Clarence Walker Miller           | <i>Pawtucket</i>                 |
| Everett Howe Miller              | <i>South Hadley Falls, Mass.</i> |
| Walter Percy Misch               | <i>Providence</i>                |
| Samuel Lyman Mitchell            | <i>Segundo, Col.</i>             |
| Franklin Randolph Morse          | <i>Providence</i>                |
| Nicholas Van Slyck Mumford       | <i>Providence</i>                |
| Dana Gardner Munro               | <i>Madison, Wis.</i>             |
| Kenneth Leland Nash              | <i>South Weymouth, Mass.</i>     |
| Samson Nathanson                 | <i>Central Falls</i>             |
| Walter Chadwick Nelson           | <i>Fall River, Mass.</i>         |
| Arthur Franklin Newell           | <i>Boston, Mass.</i>             |
| Earl Hagadorn Noyes              | <i>East Greenwich</i>            |
| Fred Blanchard Oakes             | <i>Pawtucket</i>                 |
| Francis Dyer O'Connor            | <i>Portland, Me.</i>             |
| Otto Carl Pahline                | <i>East Providence</i>           |
| Carlton Hall Parker              | <i>North Attleboro, Mass.</i>    |

| NAME                           | RESIDENCE                     |
|--------------------------------|-------------------------------|
| Earl Stanley Parker            | <i>Providence</i>             |
| Keith Nelson Pearson           | <i>Providence</i>             |
| Wyman Pendleton                | <i>Youngstown, Ohio</i>       |
| Earl Philo Perkins             | <i>Providence</i>             |
| Fred Clarence Perry            | <i>Brockton, Mass.</i>        |
| William Lester Phillips        | <i>Auburn</i>                 |
| Mellen Howard Pingree          | <i>Auburn, Me.</i>            |
| Milledge Moses Purdy           | <i>Wilton, N. H.</i>          |
| Wilbur Bertram Purvis          | <i>Norwich, Ct.</i>           |
| Frederick George Rawlings      | <i>Providence</i>             |
| George Anton Repko             | <i>New York, N. Y.</i>        |
| John Stephen Repko             | <i>New York, N. Y.</i>        |
| James Vincent Ricci            | <i>Providence</i>             |
| George Cormier Richardson      | <i>Chicago, Ill.</i>          |
| Milton Elmer Roberts           | <i>Somersworth, N. H.</i>     |
| Walter Colburn Robertson       | <i>Warwick</i>                |
| William Henderson Robertson    | <i>Lonsdale</i>               |
| Harry Edward Roelke            | <i>Frederick, Md.</i>         |
| Warren Root                    | <i>Providence</i>             |
| Edwin Maurice Rose             | <i>Providence</i>             |
| Maurice Rosen                  | <i>Taunton, Mass.</i>         |
| Israel Harris Rotman           | <i>Millis, Mass.</i>          |
| John Harvey Rowland            | <i>Shelburne Falls, Mass.</i> |
| Albert Curtis Ruger            | <i>Providence</i>             |
| Harold Preston Salisbury       | <i>Providence</i>             |
| Frederic Charles Schmidt       | <i>Brooklyn, N. Y.</i>        |
| William Frederick Scholze, Jr. | <i>Saylesville</i>            |
| Frederick William Seagrave     | <i>Slatersville</i>           |
| Harry George Seidel            | <i>Fitchburg, Mass.</i>       |
| Arthur Girard Singsen          | <i>Providence</i>             |
| Edward Lawrence Singsen        | <i>Providence</i>             |
| Alan Arthur Slade              | <i>Arlington, N. J.</i>       |
| Albert Leonard Slade           | <i>Touisset, Mass.</i>        |
| Harold Everett Smiley          | <i>Providence</i>             |
| Albert Francis Smith           | <i>East Haddam, Ct.</i>       |
| Irving Russell Smith           | <i>Arlington, N. J.</i>       |
| Leon Edward Smith              | <i>Block Island</i>           |
| George Herbert Spencer         | <i>East Greenwich</i>         |
| William Earl Sprackling        | <i>Cleveland, Ohio</i>        |
| Herbert Winter Stanley         | <i>Plymouth, N. H.</i>        |
| Charles Francis Strickland     | <i>Arlington</i>              |
| Genfong Arthur Sun             | <i>Shanghai, China</i>        |
| Harry Melvin Sutton            | <i>Keene, N. H.</i>           |

# SOPHOMORES : CLASS OF 1912

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## NAME

## RESIDENCE

|                           |                               |
|---------------------------|-------------------------------|
| Kenneth James Tanner      | <i>Providence</i>             |
| Frederick Leonard Tedford | <i>North Stoughton, Mass.</i> |
| Ernest Albert Tewksbury   | <i>Middlefield, Ct.</i>       |
| Howard Everett Thompson   | <i>Brattleboro, Vt.</i>       |
| John Von der Lieth        | <i>Hoboken, N. J.</i>         |
| Ferdinando Votta          | <i>Providence</i>             |
| Edward Emory Warner       | <i>West Fitchburg, Mass.</i>  |
| William Andrew Weidmann   | <i>Arlington</i>              |
| George Bennett Weston     | <i>Wollaston, Mass.</i>       |
| Howard Carlton White      | <i>Providence</i>             |
| Harold Alexander Wilcox   | <i>Providence</i>             |
| Allen Burnett Williams    | <i>Riverside</i>              |
| John Henry Williams       | <i>North Adams, Mass.</i>     |
| Alfred Howard Williamson  | <i>Providence</i>             |
| Robert Henry Wills        | <i>Rochester, Mass.</i>       |
| Richard Bartley Wilson    | <i>Youngstown, Ohio</i>       |
| John Tracey Winterich     | <i>Providence</i>             |
| Herbert Edward Wolfe      | <i>West Mystic, Ct.</i>       |
| Henry Augustus Wood       | <i>Bangor, Me.</i>            |
| John Burton Woods         | <i>St. Johnsbury, Vt.</i>     |
| Harry Sheffield Wright    | <i>Providence</i>             |
| Paul Rogers Wyman         | <i>Woodfords, Me.</i>         |
| Rhodes Walter Zallee      | <i>St. Louis, Mo.</i>         |

# FRESHMEN : CLASS OF 1913

|                           |                            |
|---------------------------|----------------------------|
| Charles Harlan Abbott     | <i>Antrim, N. H.</i>       |
| Arthur Ernest Allen       | <i>Edgewood</i>            |
| Ralph Carleton Allen      | <i>Abington, Mass.</i>     |
| Frank Everett Altdoerffer | <i>Lisbon, Ohio</i>        |
| Preston Franklin Arnold   | <i>Touisset, Mass.</i>     |
| Samuel Tomlinson Arnold   | <i>Fall River, Mass.</i>   |
| Simon Louie Aron          | <i>Providence</i>          |
| Russell Gilman Ashbaugh   | <i>Youngstown, Ohio</i>    |
| William Martin Aspinwall  | <i>Pawtucket</i>           |
| William Emerson Bailey    | <i>Montpelier, Vt.</i>     |
| Harold Albert Baines      | <i>Suffern, N. Y.</i>      |
| Edgar Joel Balliet        | <i>Balliettsville, Pa.</i> |
| Herbert Clarence Banks    | <i>Fredonia, N. Y.</i>     |
| Dennis Francis Barry      | <i>Warren, Mass.</i>       |
| Elmer Jones Bartlett      | <i>Warner, N. H.</i>       |
| Walter Jason Bass         | <i>Hyde Park, Mass.</i>    |
| Raymond James Bennell     | <i>Morristown, N. J.</i>   |
| Frank Carleton Blake      | <i>Providence</i>          |



| NAME                      | RESIDENCE                  |
|---------------------------|----------------------------|
| Earle Henry Blanchard     | <i>Readsboro, Vt.</i>      |
| George Boas               | <i>Providence</i>          |
| Leighton Teeterick Bohl   | <i>Edgewood</i>            |
| Edward Luther Brackett    | <i>Boston, Mass.</i>       |
| Francis James Brady       | <i>Providence</i>          |
| Leon Royden Briggs        | <i>Providence</i>          |
| Albert Caleb Brown        | <i>Newburyport, Mass.</i>  |
| Harry Chamberlain Brown   | <i>Marblehead, Mass.</i>   |
| Henry Seabury Brown       | <i>Providence</i>          |
| Sharon Osborn Brown       | <i>Providence</i>          |
| James Worth Brownville    | <i>Needham, Mass.</i>      |
| Robert Gill Buchold       | <i>Ludlow, Vt.</i>         |
| Marmaduke Cope Buffum     | <i>Newport</i>             |
| Charles Elton Burgess     | <i>New Bedford, Mass.</i>  |
| Ralph Everett Burnham     | <i>Central Falls</i>       |
| Joseph Knowles Burwell    | <i>Providence</i>          |
| Leon Hartshorn Carr       | <i>Bradford, N. H.</i>     |
| James Russell Case        | <i>South Acton, Mass.</i>  |
| Rogers Case               | <i>Bristol</i>             |
| John Casey, Jr.           | <i>Providence</i>          |
| Henry Richmond Chace, Jr. | <i>Providence</i>          |
| Myron Reuben Chace        | <i>Dighton, Mass.</i>      |
| Porter Durant Collins     | <i>Guilford, N. H.</i>     |
| Edmund Barker Conant      | <i>Palmyra, N. Y.</i>      |
| Joseph Edward Cook        | <i>Uxbridge, Mass.</i>     |
| Raymond Warner Cook       | <i>Weston, Vt.</i>         |
| Frederick Eames Cooper    | <i>Providence</i>          |
| Louis Irving Corliss      | <i>Weirs, N. H.</i>        |
| Lawton Vincent Crocker    | <i>Chester, Vt.</i>        |
| George Marsden Crowther   | <i>Pawtucket</i>           |
| Ralph Brinckerhoff Crum   | <i>Poughkeepsie, N. Y.</i> |
| John Houston Cushman      | <i>Guilford, Me.</i>       |
| Francis Perry Davis       | <i>Providence</i>          |
| Earle Raymond Delano      | <i>Newburyport, Mass.</i>  |
| Harold Faunce Dumbleton   | <i>Springfield, Mass.</i>  |
| Thomas Leo Dunn           | <i>Fall River, Mass.</i>   |
| Elisha Chester Durfee     | <i>Arlington</i>           |
| William Raymond Eastwood  | <i>Providence</i>          |
| Russell Watts Field       | <i>Barrington</i>          |
| John Jacob Frank          | <i>New York, N. Y.</i>     |
| Frederic Robert Gaiser    | <i>Meriden, Ct.</i>        |
| Karl Dana Gardner         | <i>Swansea, Mass.</i>      |
| Walter Hibberd Garrett    | <i>Chadds Ford, Pa.</i>    |

# FRESHMEN : CLASS OF 1913

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| NAME                     | RESIDENCE                      |
|--------------------------|--------------------------------|
| Victor Carl Gelb         | <i>Providence</i>              |
| Frank Bradford Gibbs     | <i>West Barrington</i>         |
| Jeffrey Solon Goldberg   | <i>New York, N. Y.</i>         |
| Avery Tillinghast Gorton | <i>Providence</i>              |
| Adrian Gordon Gould      | <i>Youngstown, Ohio</i>        |
| Colin Reuben Grant       | <i>Southbridge, Mass.</i>      |
| Benjamin Harry Grossman  | <i>Providence</i>              |
| Harold Allen Grout       | <i>East Bridgewater, Mass.</i> |
| Frederic Howland Guild   | <i>Providence</i>              |
| Clifford Aylward Hahn    | <i>Brooklyn, N. Y.</i>         |
| Benjamin Malcolm Harris  | <i>Bradford, N. H.</i>         |
| James Eddy Harris        | <i>Providence</i>              |
| William Russell Harris   | <i>Dedham, Mass.</i>           |
| Edwin Gustav Hempel      | <i>Providence</i>              |
| Arthur Henry Higgins     | <i>Charleston, Me.</i>         |
| Leon Clifford High       | <i>Providence</i>              |
| Edward Joseph Horrigan   | <i>Providence</i>              |
| Arthur Whitney Howe, Jr. | <i>Philadelphia, Pa.</i>       |
| William Mason Howe       | <i>Seekonk, Mass.</i>          |
| Norman Bigelow Hull      | <i>Brooklyn, N. Y.</i>         |
| Abraham Samuel Isaacson  | <i>Bristol</i>                 |
| Hyman Jeram              | <i>Providence</i>              |
| Edward Leo Kenney        | <i>Sandwich, Mass.</i>         |
| William Edmund Kenyon    | <i>Fall River, Mass.</i>       |
| Francis Xavier Keresey   | <i>West Stockbridge, Mass.</i> |
| Karl Henry Koopman       | <i>Providence</i>              |
| Oliver Moyer Kratz       | <i>Philadelphia, Pa.</i>       |
| Daniel Harrison Kulp     | <i>Pottstown, Pa.</i>          |
| William Dickson Lamond   | <i>Providence</i>              |
| Duncan Langdon           | <i>Newburyport, Mass.</i>      |
| Allan Lincoln Langley    | <i>Newport</i>                 |
| Thure Maurice Larson     | <i>New Britain, Ct.</i>        |
| Alfred Bunyan Lemon      | <i>Manchester, N. H.</i>       |
| Ira Lloyd Letts          | <i>Moravia, N. Y.</i>          |
| Leroy Everett Loxley     | <i>Providence</i>              |
| Abraham Lubert           | <i>Providence</i>              |
| Joseph Anthony McCaull   | <i>Providence</i>              |
| Benjamin Murrie McLyman  | <i>Newport</i>                 |
| Andrew Hamilton McPhail  | <i>North Adams, Mass.</i>      |
| Daniel Lawrence Mahoney  | <i>Newton, Mass.</i>           |
| Samuel Maker             | <i>Providence</i>              |
| Albert Pray Martin       | <i>Pawtucket</i>               |
| George Tucker Metcalf    | <i>Wickford</i>                |

| NAME                         | RESIDENCE                        |
|------------------------------|----------------------------------|
| Charles Hiram Moore          | <i>Springfield, Mass.</i>        |
| Henry Booth Moore            | <i>Greenport, N. Y.</i>          |
| Edwin Francis Morgan         | <i>Providence</i>                |
| Roland Joseph Morgan         | <i>Providence</i>                |
| Carleton Doty Morse          | <i>New Bedford, Mass.</i>        |
| Miguel Antonio Munoz         | <i>Guayama, Porto Rico</i>       |
| Harold Winthrop Munro        | <i>Providence</i>                |
| Emery Card Munyan            | <i>Thompson, Ct.</i>             |
| Edward Andrew Murphy         | <i>Mount Sinai, N. Y.</i>        |
| William Thomas Murphy        | <i>Cranston</i>                  |
| Hendrik Gabriel Nelson       | <i>Providence</i>                |
| Louis Israel Newman          | <i>Providence</i>                |
| Arthur Carlton Nichols       | <i>Lincoln</i>                   |
| Louis Oshman                 | <i>Kingsbridge, N. Y.</i>        |
| Herbert Farwell Ostegee      | <i>Ausable Forks, N. Y.</i>      |
| Cecil Carlton Parker         | <i>Hyde Park, N. Y.</i>          |
| Ernest Arthur Parker         | <i>Providence</i>                |
| Sylvanus Henry Hill Parsons  | <i>Albany, N. Y.</i>             |
| Clarence Horace Philbrick    | <i>Providence</i>                |
| Jackson Cole Phillips        | <i>Providence</i>                |
| Clarence Ward Piper          | <i>Rockland, Mass.</i>           |
| Frederick William Pollitt    | <i>Paterson, N. J.</i>           |
| William James Potter         | <i>Providence</i>                |
| Harry Winfield Ransbottom    | <i>Dover, N. H.</i>              |
| James Henry Readio, Jr.      | <i>Pawtucket</i>                 |
| William Joseph Reed          | <i>North Adams, Mass.</i>        |
| Edwin Hewett Reeder          | <i>Hastings-on-Hudson, N. Y.</i> |
| Joseph Francis Reilly        | <i>Brockton, Mass.</i>           |
| Herman Frederick Reinhardt   | <i>Scranton, Pa.</i>             |
| Kenneth Stillman Rice        | <i>Gloucester, Mass.</i>         |
| Charles Herbert Ricker       | <i>Providence</i>                |
| Thomas Howarth Roberts       | <i>Providence</i>                |
| Verne Douglas Roberts        | <i>Somersworth, N. H.</i>        |
| Charles Noble Robertson, Jr. | <i>Lonsdale</i>                  |
| Benjamin Israel Robinson     | <i>Providence</i>                |
| Phil Robinson                | <i>Ocala, Fla.</i>               |
| Richard Dodson Robinson      | <i>Joppa, Md.</i>                |
| Michael Charles Rogers       | <i>Providence</i>                |
| Herbert Duncan Rollason      | <i>Providence</i>                |
| Herbert Mortimer Rosenberg   | <i>New York, N. Y.</i>           |
| John Evans Rouse             | <i>Denver, Col.</i>              |
| Ernest Albert Scholze        | <i>Saylesville</i>               |
| Raymond Booth Scranton       | <i>Shelton, Ct.</i>              |

## FRESHMEN : CLASS OF 1913

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## NAME

## RESIDENCE

|                              |                             |
|------------------------------|-----------------------------|
| George Upton Selina          | <i>Montpelier, Vt.</i>      |
| Thomas Clark Shedd           | <i>East Providence</i>      |
| Marshall Kingston Sheldon    | <i>Pawtucket</i>            |
| Carleton Fenner Sims         | <i>Warwick Neck</i>         |
| Howard Merrick Smith, Jr.    | <i>Lakewood</i>             |
| Leonard Walter Smith         | <i>Pawtucket</i>            |
| Walter Henry Snell           | <i>Brockton, Mass.</i>      |
| Charles Raymond Somers       | <i>Mansfield, Mass.</i>     |
| Earl Prentice Spalding       | <i>Providence</i>           |
| John Kent Starkweather       | <i>Denver, Col.</i>         |
| Clifford John Stevens        | <i>Brooks, Me.</i>          |
| Lyndon Russell Story         | <i>Essex, Mass.</i>         |
| William Matthew Sullivan     | <i>Fall River, Mass.</i>    |
| Reynolds Sweetland           | <i>Providence</i>           |
| Norman Stephen Taber         | <i>Providence</i>           |
| Louis Clifford Taylor, Jr.   | <i>Trenton, N. J.</i>       |
| Harold Edgar Thomas          | <i>Cranston</i>             |
| Lemuel Halsted Thompson      | <i>Morristown, N. J.</i>    |
| Robert Stanley Thomson       | <i>Pawtucket</i>            |
| Charles Howard Torrey        | <i>Abington, Mass.</i>      |
| Earl Whalley Tucker          | <i>Allentown</i>            |
| Charles Waterman Walker      | <i>Meshtanticut</i>         |
| John Tempest Walker, Jr.     | <i>Providence</i>           |
| Albert Joseph Wallace        | <i>Chicago, Ill.</i>        |
| Charles Wheaton Walter       | <i>New York, N. Y.</i>      |
| Edward Strawn Walton         | <i>Youngstown, Ohio</i>     |
| Raymond Glenn Watkins        | <i>Franklinville, N. Y.</i> |
| Elisha Carpenter Wattles     | <i>Dorchester, Mass.</i>    |
| Russell Henry Wentz          | <i>Hall, W. Va.</i>         |
| Winter Arnold White          | <i>Groton, Ct.</i>          |
| Willis Carey Wilber          | <i>Buffalo, N. Y.</i>       |
| Frederick Henry Wilke        | <i>Morristown, N. J.</i>    |
| Frederick Crawford Williams  | <i>Pawtucket</i>            |
| Howell Ormsbee Wilson        | <i>Morenci, Mich.</i>       |
| James Taylor Wilson          | <i>Youngstown, Ohio</i>     |
| Horace Whipple Woodbury, Jr. | <i>Beverly, Mass.</i>       |
| Edmund Nugent Woodsum        | <i>Worcester, Mass.</i>     |
| Maynard Earle Wright         | <i>Montpelier, Vt.</i>      |
| Ernest Elwood Yeaton         | <i>Chelsea, Me.</i>         |
| Merton Perry Young           | <i>Haverhill, Mass.</i>     |

## SPECIAL STUDENTS

| NAME                          | RESIDENCE                  |
|-------------------------------|----------------------------|
| George Augustus Adams         | <i>Bradford, Mass.</i>     |
| Nathan Butler Akerman         | <i>Pontiac</i>             |
| Ernest Balmforth              | <i>Providence</i>          |
| Louis deBlois Bartlett        | <i>Providence</i>          |
| Zue Sun Bien                  | <i>Shanghai, China</i>     |
| Lionel Moise Bishop           | <i>Denver, Col.</i>        |
| Henry Dewees Cady             | <i>Warren</i>              |
| Antonio Colas, Jr.            | <i>Havana, Cuba</i>        |
| Michael Francis Coyne         | <i>Providence</i>          |
| Charles Miller Franklin       | <i>Pawtucket</i>           |
| Frederick Richmond Gleason    | <i>Brooklyn, N. Y.</i>     |
| Everett Doane Higgins         | <i>Riverside</i>           |
| George Rogers Hill            | <i>Brockton, Mass.</i>     |
| Richard Grant Hooper          | <i>Providence</i>          |
| Herbert Porter Jarvis         | <i>Somerville, Mass.</i>   |
| Harold Leslie Kohler          | <i>New York, N. Y.</i>     |
| George Henry McGurty          | <i>Somersworth, N. H.</i>  |
| Charles Clarence Maxson       | <i>Westerly</i>            |
| Isaac Dwight Miner            | <i>East Greenwich</i>      |
| Walter Howard Partington      | <i>Central Falls</i>       |
| William Theodore Pierce       | <i>Springfield, Mass.</i>  |
| Max Olney Pinkham             | <i>Wollaston, Mass.</i>    |
| Charles Austin Piper          | <i>Pontiac</i>             |
| George Reed Price             | <i>Lakewood</i>            |
| Adrien Edward Regnier         | <i>Dorchester, Mass.</i>   |
| Orville Pratt Richardson, Jr. | <i>Attleboro, Mass.</i>    |
| Louis Frederic Robbins        | <i>Ballston Spa, N. Y.</i> |
| Leon Semonoff                 | <i>Providence</i>          |
| Richard Lambert Shea          | <i>Centerdale</i>          |
| Jeremiah James Shea           | <i>Holyoke, Mass.</i>      |
| Whitten Dexter Shedd          | <i>East Providence</i>     |
| David Custer Stranger         | <i>Providence</i>          |
| Yuengfong Ralph Sun           | <i>Shanghai, China</i>     |
| William Royal Watters         | <i>Riverside</i>           |
| Herman Oscar Werner           | <i>Providence</i>          |
| Robert Hector Williams        | <i>Edgewood</i>            |
| William Valentine Winslow     | <i>Fall River, Mass.</i>   |
| Clarence Eugene Woodward      | <i>Cortland, N. Y.</i>     |
| William Lincoln Wright, Jr.   | <i>Providence</i>          |
| Charles Zellermayer           | <i>Providence</i>          |
| Constantine Lampros Zunes     | <i>Providence</i>          |



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*Assistant Professor of Roman Literature and History*

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*Associate Professor of Organic Chemistry*

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*Professor of Biblical Literature and History*

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*Professor of Rhetoric*

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*Assistant Professor of English and Public Speaking*

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*Assistant Professor of the Germanic Languages and Literatures*

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*Assistant Professor of Botany and Curator of the Herbarium*

CAMILLO VON KLENZE, PH.D.

*Professor of the Germanic Languages and Literatures*

HERBERT EUGENE WALTER, PH.D.

*Assistant Professor of Biology*

WILLIAM KIRK, PH.D.

*Assistant Professor of Political Economy*

ROLAND GEORGE DWIGHT RICHARDSON, PH.D.

*Assistant Professor of Pure Mathematics*

CHARLES HERMAN HUNKINS, A.B.

*Instructor in French*

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*Instructor in English*

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*Instructor in Physiology and Household Economics in the Women's College*

WILLIAM THOMSON HASTINGS, A.M.

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*Instructor in German*

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*Instructor in English*

ARTHUR WARE LOCKE, A.B.

*Instructor in Music*

GILBERT CHINARD, B. ès L., L. ès L.

*Instructor in French*

ROBERT CAMPBELL WEED, PH.B.

*Instructor in Chemistry*

DAVID WILKINSON SMITH, A.M.

*Assistant in Greek*

BENJAMIN LOUIS ANTOINE HÉNIN, B. ès L., LL.B.

*Assistant in French*

LAURENCE RICH GROSE, A.M.

*Assistant in English*

FLORENCE HARRIS DANIELSON, A.B.

*Assistant in Biology*

KATHERINE EVERETT, A.B.

*Assistant in Philosophy*

JEANNIE OLIVER ARNOLD, M.D.

*Medical Examiner*

HELEN WILBUR PAINE

*Instructor in Physical Training*

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*Head of the Slater Memorial Homestead*

ELIZABETH LEIGH RICHARDS

*Librarian*

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CARL BARUS, *Mrs.* FRANCIS G. ALLINSON, *Miss* CHARLOTTE L. TILLINGHAST,  
*Mrs.* WILLIAM T. HASTINGS.

## COURSES OF INSTRUCTION OFFERED IN 1909-10

COURSES designated by a † are given at the University; women are admitted to them, but only on the recommendation of the Dean of the Women's College. Women may also be admitted to other University courses not announced here, with the special permission of the department and with the consent of the Dean of the Women's College. In courses designated by a \* a final mark covering the work of the course as a whole is given at the end of the course, the marks given at the end of the preceding term or terms being regarded as temporary.

With the exception of Biology 20 and 22, Greek Literature and History 36, and Roman Literature and History 5 and 34, these courses are identical with corresponding courses offered to men. Detailed information may be found on pages 77-133. The officers of instruction are those conducting courses for men also, with the addition of:

LIDA SHAW KING, A.M., Professor of Classical Literature and Archaeology

ALICE WILSON WILCOX, A.M., Instructor in Biology

### ART

[1, 2, 3. *History of Art from Antiquity through the Renaissance*]  
Not offered in 1909-10.

4, 5. *Modern Art*

Professor POLAND.

First and second terms. Tu., Wed., Sat., at 9.25.

6. *Theory and Criticism of the Fine Arts*

Professor POLAND.

Third term. Tu., Wed., Sat., at 9.25.

10. *Freehand Drawing*

Rhode Island School of Design.

Tu., or Th., or Fri., at 2.20.

11. *Practical Work in Art*

Rhode Island School of Design.

Tu., Th., Fri., at 2.20.



## ASTRONOMY

1, 2, 3. *General Course*

Professor UPTON.

Wed., Fri., Sat., at 11.25.

## BIBLICAL LITERATURE AND HISTORY

1.† *Elementary Hebrew*

[13, 17, 18.† *Old Testament Literature and History*]

Not offered in 1909-10.

14, 19, 20.† *New Testament Literature and History*

21, 22, 23. *The English Bible as Literature*

Professor FOWLER.

Tu., Wed., Sat., at 9.25.

## BIOLOGY

2.† *Comparative Anatomy of Vertebrates*

3.† *Bacteriology*

4, 5.† *Advanced Histology and Pathology*

7.† *Chemical Physiology*

8.† *Physical Physiology*

9.† *Anatomy of the Nervous System*

10.† *Embryology and Histology*

16.† *Evolution*

[17.† *Physiology*]

Not offered in 1909-10.

18.† *Ornithology*

20. *Euthenics*

Aims to teach the scientific facts and physiological and economic principles upon which *right living* depends. First term, the chemistry

of foods and their physiological and economic value; food constituents, proteids, carbohydrates, fats, etc.; digestion and absorption; quantitative analysis of milk; selection and preparation of food; study of dietaries. Second term, the principles of general physiology and their application to personal hygiene; circulation, respiration, excretion, and reproduction; muscular and nervous action under varying conditions of stimulation, temperature, fatigue, etc. Third term, the principles of construction and practical management of the home necessary for the economy, health, and social efficiency of the individual occupants; demonstration of sanitary methods. Those who desire may substitute for the first term of this course the first term of 22. *Miss WILCOX, assisted by Miss DANIELSON.*

Three hours. Six hours of attendance. Through the year. Elective for all Undergraduates. *Mon. 10.25 to 12.15; Wed. 10.25 to 12.15; Th. 10.25 to 12.15.*

## 22. *General Biology*

Introductory to other courses in the department; also designed for those who, without intending to pursue the subjects further, desire a general view of biological work and biological theories, as variation, natural selection, evolution, and heredity. First term, practise in dissection; study of the structure and functions of the different organs of a typical mammal and comparisons with those of man. Second and third terms, use of compound microscope, study of the cell, protoplasm, tissues; metabolism, growth and reproduction in unicellular animals and plants; theories of fermentation, infection, vaccination, and immunity; more specialized forms, hydra, fern, annelid, lobster, and frog. Collecting trips in the spring. Those who desire may substitute for the second and third terms of this course the second and third terms of 20. After the first term Botany 1 and Biology 22 are identical and the classes are combined. *Miss WILCOX, assisted by Miss DANIELSON.*

Three hours. Six hours of attendance. Through the year. Elective for undergraduates. *Tu., Wed., Sat., 9.25 to 11.15.*

## BOTANY

### 1. *Introductory Course*

*Professor COLLINS.*

*Tu., Wed., Sat., at 9.25.*

### 2.\*† *Histology and Physiology*

[3, 4, 5.† *Comparative Morphology*]

Not offered in 1909-10.

6.\*† *Special Course*

7.† *Trees*

## CHEMISTRY

1, 2, 3. *Descriptive Chemistry*

Professor BUCHER and Mr. WEED.

Tu., Th., Sat., at 12.25

4, 5.† *Qualitative Analysis*

6.† *Quantitative Analysis*

7, 8, 9.† *Quantitative Analysis, advanced course*

10, 11, 12.† *Organic Chemistry*

18, 19, 20.† *Physical Chemistry*

[21, 22.† *Organic Chemistry, advanced course*]

Not offered in 1909-10.

[23.† *Inorganic Chemistry, advanced course*]

Not offered in 1909-10.

24, 25, 26.† *Organic Preparations, advanced course*

27, 28, 29.† *Inorganic Preparations, advanced course*

33, 34, 35.† *Conference on Special Topics in Chemistry*

36, 37, 38.† *Conference on Special Topics in Chemistry*

## ECONOMICS

1. *Economics, elementary*

Dr. KIRK.

Third term. Tu., Th., Sat., at 12.25.

3.† *Money and Banking*

[4.† *Public Finance*]

Not offered in 1909-10.

5.† *History and Present Tendencies of Economics*12, 6, 7. *Industrial Life, The Labor Movement, Socialism*  
Dr. KIRK.*Mon., Th., Fri., at 9.25.*[9.† *The Tariff*]

Not offered in 1909-10.

10, 11, 12.† *Industrial History*13.† *Economic and Commercial Geography*20, 21, 22.† *Investigation of Special Topics*

## EDUCATION

Professor JACOBS

1. *History of Education*First term. *Mon., Wed., Th., at 10.25.*2. *Critical Study of Modern Education*Second term. *Mon., Wed., Th., at 10.25.*3. *Fundamental Principles of Education*Third term. *Mon., Wed., Th., at 10.25.*4. *Psychology of Education*First term. *Mon., Th., Fri., at 9.25.*5. *Hygiene of Education*Second term. *Mon., Th., Fri., at 9.25.*6. *Practical Introduction to Teaching*Third term. *Mon., Wed., Th., at 9.25.*

## ENGLISH

1. *Rhetoric and Composition*Professor HUNTINGTON, Messrs. HARKNESS and L. R. GROSE.  
*Wed., Fri., Sat., at 11.25.*

3.\* *English Composition, advanced course*

Mr. HASTINGS.

*Tu., Wed., Sat., at 9.25.*[4.\* *Argumentative Composition*]

Not offered in 1909-10.

[7. *Public Speaking*]

Not offered in 1909-10.

9.† *Old English*10.† *Chaucer*11. *English Literature from the Beginning to the Present Time*

Professor BRONSON, assisted by Mr. HARKNESS.

*Tu., Fri., Sat., at 10.25.*[13. *History of the Drama in England*]

Not offered in 1909-10.

18. *The Modern English Drama*

Professor CROSBY.

*Tu., Fri., Sat., at 10.25.*[14. *Shakspeare*]

Not offered in 1909-10.

15. *Shakspeare*

Professor POTTER.

*Mon., Tu., Th., at 2.25.*[16. *English Literature exclusive of the Drama, from 1600 to 1660*]

Not offered in 1909-10.

[17. *English Literature from 1660 to 1798*]

Not offered in 1909-10.

[19. *English Literature from 1798 to 1832*]

Not offered in 1909-10.

20. *English Literature from 1832 to 1892*

Mr. H. B. GROSE.

*Wed., Fri., Sat., at 11.25.*



22. *American Literature*

Professor BRONSON.

*Mon., Tu., Th., at 11.25.*

## GEOLOGY

3.† *General Geology*6.† *Dynamical and Structural Geology*12.† *Economic and Commercial Geography*13.† *Geographic Seminary*

## GERMANIC LANGUAGES AND LITERATURES

1. *Introductory Course*

Mr. MITCHELL.

*Mon., Wed., Fri., at 12.25.*2. *Intermediate Course*

Professor JONAS.

*Mon., Wed., Fri., at 12.25.*3, 4, 5. *Reading Course*

Professors JONAS and CROWELL.

*Mon., Tu., Th., at 11.25.*6.† *Modern Prose*7. *Advanced Course in Standard Authors, Classical and Modern*

Professor VON KLENZE.

*Tu., Wed., Sat., at 9.25.*[29, 30, 31. *The German Drama of the Nineteenth Century*]

Not offered in 1909-10.

[32.† *Lessing and Schiller*]

Not offered in 1909-10.

10. *Goethe's Faust: Parts 1 and 2*

Professor CROWELL.

*Mon., Wed., Fri., at 12.25.*

33, 34, 35.† *Goethe: A Study of His Life and Works*

[12, 13, 14.† *Outline History of German Literature*]

Not offered in 1909-10.

17.† *Germanic Mythology*

20.† *Old Norse*

15.† *Middle High German*

## GREEK LITERATURE AND HISTORY

A, B, C. *Elementary Course*

Professor MANATT and Mr. SMITH.

Mon., Wed., Fri., at 12.25.

3. *Lysias*

Professor MANATT.

First term. Tu., Fri., Sat., at 10.25.

1. *Plato*

Professor ALLINSON.

Second term. Tu., Fri., Sat., at 10.25.

2. *Homer*

Professor MANATT.

Third term. Tu., Fri., Sat., at 10.25.

4. *Lucian*

Professor ALLINSON.

First term. Tu., Wed., Sat., at 9.25.

35. *Greek Historians*

Professor MANATT.

Second term. Tu., Wed., Sat., at 9.25.

6. *Dramatic Poets*

Professor ALLINSON.

Third term. Tu., Wed., Sat., at 9.25.

8. *Homer*

Professor MANATT.

First term. *Mon., Tu., Th., at 11.25.*9. *Theocritus and Herondas*

Professor MANATT.

Second term. *Mon., Tu., Th., at 11.25.*7. *Plato and Aeschylus*

Professor ALLINSON.

Third term. *Mon., Tu., Th., at 11.25.*[10. *The Drama*]

Not offered in 1909-10.

[11. *Herodotus*]

Not offered in 1909-10.

[12. *Thucydides*]

Not offered in 1909-10.

[13. *Lucian*]

Not offered in 1909-10.

[14. *Aeschines and Demosthenes*]

Not offered in 1909-10.

[15. *Pindar*]

Not offered in 1909-10.

[16, 17, 18. *Homer*]

Not offered in 1909-10.

19, 20. *Greek Composition*

Professor ALLINSON.

Second and third terms. Hour to be determined later.

[26. *Attic Orators*]

Not offered in 1909-10.

[27, 28. *Homer and Mycenaean Archaeology*]

Not offered in 1909-10.

[29. *Demosthenes*]

Not offered in 1909-10.

36. *Introduction to Greek Archaeology*

Outline of the remains of the earliest Greek civilization; an introductory study of Greek vases, coins, small bronzes, and terra-cotta figurines. Intended to give a general survey of these sources for Greek history and life. Illustrated lectures; collateral reading. *Professor KING.*

Three hours. Third term. Elective for students who have completed one course in Latin or Greek. *Mon., Th., Fri., at 9.25.*

34. *Greek Literature*

*Professor ALLINSON.*

First term. *Mon., Wed., Th., at 10.25.*

## HISTORY

1. *Medieval and Modern History of Europe*

*Professor MACDONALD.*

*Mon., Tu., Th., at 11.25.*

2, 3, 6. *Spanish History, Islam and the Crusades, The French Revolution*

*Professor MUNRO.*

*Mon., Tu., Th., at 11.25.*

[8, 9, 10. *English Constitutional and Political History to 1689*]

Not offered in 1909-10.

[11, 12, 13. *English Constitutional and Political History since 1689*]

Not offered in 1909-10.

[19, 20, 21. *Constitutional and Political History of the United States*]

Not offered in 1909-10.

22, 23, 24.† *Seminary in American History*27, 28, 29. *American History*

*Professor MACDONALD*

*Tu., Fri., Sat., at 10.25.*

## INDO-EUROPEAN PHILOLOGY

1. *General Introduction to the Study of Language*

Professor ALLINSON.

Third term. *Mon., Wed., Th., at 10.25.*

## MATHEMATICS

3. *Algebra*

Professors MANNING and RICHARDSON.

*Mon., Tu., Th., Fri., at 2.25.*1. *Solid and Spherical Geometry*

Professors MANNING and RICHARDSON.

*Mon., Tu., Th., Fri., at 2.25.*2. *Trigonometry*

Professors MANNING and RICHARDSON.

*Mon., Tu., Th., Fri., at 2.25.*4. *Analytic Geometry*

Professor DAVIS.

First and second terms. *Mon., Wed., Th., at 10.25.*5. *Differential and Integral Calculus*

Professor DAVIS.

Third term. *Mon., Wed., Th., at 10.25.*6, 7, 8.† *Differential and Integral Calculus*9, 10, 11.† *Differential Equations.*[12.† *Determinants and Theory of Equations*]

Not offered in 1909-10.

13.† *Modern Methods of Analytic Geometry*[14.† *Solid Analytic Geometry*]

Not offered in 1909-10.

22.† *Theory of Functions*



[23.† *Differential Equations, advanced course*]

Not offered in 1909-10.

24.† *Advanced Algebra*

[25.† *General Theory of Curves and Surfaces*]

Not offered in 1909-10.

[26.† *Quarternions and allied subjects*]

Not offered in 1909-10.

## PHILOSOPHY

1. *Logic*

Professor MEIKLEJOHN, assisted by Miss EVERETT.

Mon., Tu., Th., at 11.25.

2. *Psychology, introductory course*

Professor DELABARRE.

Mon., Th., Fri., at 9.25.

3.† *Psychology, advanced course*

4.† *Experimental Psychology, introductory laboratory course*

5.† *Experimental Psychology, advanced laboratory course*

6, 7, 8. *History of Philosophy*

Professor EVERETT.

Mon., Wed., Th., at 10.25.

[9, 10. *Theoretical Ethics*]

Not offered in 1909-10.

11. *Practical Ethics*

President FAUNCE.

Third term. Tu., Wed., Fri., at 10.25.

[12. *Philosophy of Religion*]

Not offered in 1909-10.

[16.† *Kantian and Post-Kantian Philosophy*]

Not offered in 1909-10.

17.† *Metaphysics*

## PHYSICS

1, 2, 3. *Elementary Physics*

Professor BARUS.

*Mon., Tu., Th., at 11.25.*4, 5, 6.† *Elementary Physics, continued*7.† *Physical Measurements*14, 15, 16.† *Advanced Laboratory Course*17, 18, 19.† *Applied Harmonic Analysis and Applied Vector Analysis*20, 21, 22.† *Physics, advanced course*

## ROMAN LITERATURE AND HISTORY

1. *Livy*

Professor KING.

First term. *Mon., Th., Fri., at 9.25.*2. *Cicero's Letters*

Professor GREENE.

Second term. *Mon., Th., Fri., at 9.25.*3. *Tacitus' Germania and Agricola*

Professor GREENE.

Third term. *Mon., Th., Fri., at 9.25.*4. *Horace's Odes and Epodes*

Professor GREENE.

First term. *Mon., Th., Fri., at 9.25.*5. *Catullus, Tibullus, and Propertius*

Professor KING.

Second term. *Mon., Th., Fri., at 9.25.*6. *Satires of Horace*

Professor HARKNESS.

Third term. *Mon., Th., Fri., at 9.25.*

7, 8, 9. *Latin Poetry**Professors HARKNESS and GREENE.**Tu., Th., Sat., at 12.25.*[10, 11, 12. *Latin Prose*]

Not offered in 1909-10.

22, 23, 24. *Latin Composition**Professor GREENE.**Fri. at 2.25.*[34. *Vergil*]*Bucolics*, with special reference to literary sources and influence; *Georgics*, and *Aeneid*, with special reference to the history of the times. *Professor KING.*

Three hours. First term. Elective for Sophomores. Not offered in 1909-10.

30. *Roman Literature**Professor HARKNESS.*Second term. *Mon., Wed., Th., at 10.25.*

## ROMANCE LANGUAGES AND LITERATURES

1. *Elementary Course**Mr. CHINARD.**Mon., Wed., Th., at 10.25.*2, 3, 4. *Intermediate Course**Mr. HUNKINS.**Mon., Wed., Th., at 10.25.*5, 6, 7. *French Language and Literature**Professor JOHNSON.**Tu., Wed., Sat., at 9.25.*[8, 9, 10. *French Literature exclusive of the Drama, from 1800 to 1850*]

Not offered in 1909-10.

[11, 12, 13. *French Literature exclusive of the Drama, since 1850*]

Not offered in 1909-10.

14. *Composition*

Mr. HÉNIN.

*Sat. at 8.30.*20, 21, 22. *French Literature exclusive of the Drama, from 1600 to 1800*

Professor JOHNSON.

*Wed., Fri., Sat., at 11.25.*23, 24, 25. *The French Drama*

Professor LANGDON.

*Mon., Wed., Fri., at 12.25.*26, 27, 28.† *Modern Italian*35, 36, 37. *Dante in English*

Professor LANGDON.

*Wed., Fri., Sat., at 11.25.*38, 39, 40.† *Modern Spanish*41, 42, 43.† *Spanish Language and Literature*

## SOCIAL AND POLITICAL SCIENCE

## POLITICAL SCIENCE

1. *Political Science, elementary*

Professor WILSON.

First term. *Tu., Th., Sat., at 9.25.*3, 4.† *American Government*5.† *Comparative Study of Constitutions*

## SOCIAL SCIENCE

1. *Social Science, elementary*

Professor DEALEY.

Second term. *Tu., Th., Sat., at 12.25.*

## 2. *Social Institutions, Conditions, and Problems*

Professor DEALEY.

*Wed., Fri., Sat., at 11.25.*

## 3.† *Origin and Development of Society*

## 4.† *Social Philosophy*

## 5.† *Application of Sociological Principles*

### MUSIC

## 1, 2, 3. *The Evolution of Modern Music*

Mr. LOCKE.

*Mon., Wed., Fri., at 12.25.*

A choral society, conducted by Mr. Locke, meets once a week during the winter.

### PHYSICAL TRAINING

Mrs. PAINE

From the close of the Thanksgiving Recess to March 11, all first and second year students are required to attend gymnasium classes three times a week, as follows:

SOPHOMORE DIVISION: *Mon., Tu., Th., 2.30 to 3.15.*

FRESHMAN DIVISION: *Mon., Tu., Th., 3.25 to 4.10.*

A voluntary class for Juniors and Seniors will be held on *Fri. at 2.30.*

## ORGANIZATION OF THE WOMEN'S COLLEGE†

INSTRUCTION for undergraduate women§ is provided by a department of the University known as THE WOMEN'S COLLEGE IN BROWN UNIVERSITY. The aim of the Women's College is to offer to all properly prepared women the same examinations, the same courses of study under the same teachers, and the same degrees that the University offers to men, but to preserve the distinct social life of a separate college.

The Corporation of the University assumes supervision and control of the Women's College as of other departments of the University, and for this purpose appoints annually an Executive Committee of the Women's College. The

†Bulletins of the Women's College may be obtained from the Registrar, The Women's College in Brown University, Providence, R.I. For information not contained in this Catalogue or in the Bulletins, apply to the Dean of the Women's College.

§ In the Graduate Department of Brown University all courses intended for graduate students are open to women on the same terms as to men.



Corporation receives gifts of money to found scholarships, fellowships, and professorships in Brown University for the benefit of its women students, and for the general purposes of the Women's College, and holds and administers such funds as separate and distinct from the general funds of the University. All gifts, legacies, and bequests for the Women's College, like those meant for any other department of the University, should be made payable to "Brown University, in Providence, in the State of Rhode Island and Providence Plantations," and designated for the use of the Women's College.

The President of the University is charged with the general direction, supervision, and government of this College as of other departments of the University. The immediate direction, supervision, and control devolve, subject to the direction of the President, on the Dean of the Women's College. An Advisory Council, appointed under the authority of the Corporation, advises with the President and the Dean upon matters relating to the Women's College, and makes recommendations to the Executive Committee of the Women's College or to the Corporation.

The Faculty of the Women's College is composed of the heads of all departments of instruction in Brown University, together with all professors and instructors who are actually teaching in the College.

The Women's College has a separate recitation hall, gymnasium, and dormitory, but uses the various libraries, laboratories, and museums of the University. For a description of these latter buildings, see pages 149-158. The grounds of the Women's College are an eighth of a mile from the University, with the main entrance at 172 Meeting Street. Pembroke Hall, the recitation building, contains the offices of the Dean and the Registrar, recitation rooms, a reading room and a library, a study, a chapel, and a lunch room. The Sayles Gymnasium contains the offices of the Instructor in Physical Training, a large hall with a gallery, a rest room, a study hall, and recitation rooms; the basement is fitted up with dressing rooms, bathrooms, lockers, needle and shower baths, and bowling alleys. The dormitory, the Slater Memorial Homestead, at 66 Benefit Street, has, in addition to the reception, living, and dining rooms, and the apartment occupied by the Head of the house, sleeping rooms for twenty-two students.

## REQUIREMENTS FOR ADMISSION

The requirements for admission to the Women's College are the same as those which the University prescribes for men. For information concerning admission by certificate or examination, and the times and places of examinations, see pages 41-43. Certificates and applications for permission to take examinations should be sent to the Registrar of the University. For the entrance requirements for the various degrees, admission to advanced standing, and admission of special students, see pages 44-55. Each applicant for registration as a special student must consult the Dean of the Women's College before registering.

## REGISTRATION AND ENROLMENT

The regulations governing registration and enrolment are the same at the Women's College as at the University. (See pages 56, 57.) All students must apply for registration and enrolment at the office of the Registrar of the Women's College, in Pembroke Hall, between 9 a.m. and 12 m., or between 2 p.m. and 4 p.m., on the same days as at the University. Permission to change a previous registration must be obtained from the Dean, on the same days and at the same hours.

## REQUIREMENTS FOR DEGREES

The requirements for the various degrees are explained on pages 59-65. Upon students of the Women's College who complete satisfactorily the work leading to the degree of Bachelor of Arts, Bachelor of Philosophy, or Bachelor of Science, the Board of Fellows of the University confers the appropriate degree. For the degrees conferred in 1909, see pages 185, 186.

## EXAMINATIONS

As a rule women take the same examinations as those offered to men, and at the same times and places. When a separate examination is necessary, the two examinations are made as nearly identical in character as possible. (See pages 69, 70.)

## PHYSICAL TRAINING AND MEDICAL CARE

From the close of the Thanksgiving recess to the end of the second term three hours a week of physical training are required of first and second year students; for other students voluntary classes are held. All work, including outdoor work, is under the supervision of the instructor. At the beginning of their Freshman and Sophomore years, students are carefully examined both by the College Physician and by the Director of the Department. Early each fall the College Physician gives five lectures on Personal Hygiene at which attendance is required of all new students. Any student, not living at home, may in case of illness visit or summon the College Physician; for this first call no fee is charged.

## FEES

Students at the Women's College pay the same fees as other students of the University. (See pages 167, 168.) No deduction in tuition is made on account of absence. One-half of the tuition and of the incidental expenses must be paid in advance; the remainder is due January 1. Laboratory fees, etc., must be paid two weeks before the close of a term.

Special students at the Women's College are charged \$10 a term for each course holding three recitations a week. Laboratory fees are in addition to this.

## DORMITORY ACCOMMODATIONS

The Slater Memorial Homestead has double and single rooms, adequately furnished. For a single room or for half of a double room, together with board, the charge is \$250 a year. One-third of this sum is payable on or before October 23, February 6, and April 30. Students obliged to withdraw from college before the end of the year will be charged at the rate of \$4.50 a week, from the time they leave until the vacancy is filled. Applications for rooms should be made to the Registrar before May 1; later applications will be considered if vacancies occur. Every application must be accompanied by a deposit of \$15. This sum will be credited to the student and deducted from the payment for the first term. A similar fee is required after entrance to college, on renewal of application for each succeeding year. Notice of a withdrawal, or of a transfer of application to another year, must be sent to the Registrar before August 15; otherwise the deposit will be forfeited. The dormitory will be open to students twenty-four hours before the close of registration.

Students who do not live at home or in the College dormitory are required to live in houses authorized by the College; a list of addresses may be secured from the Registrar.

## LOAN FUNDS AND SCHOLARSHIPS

The College has a loan fund and various scholarships designed to aid deserving students. Aid is given only to students whose work is creditable, and is withdrawn if the recipients become deficient in scholarship or subject to college discipline. Applications should be made in writing to the Dean of the Women's College on or before May 1. Awards are made after July 1. A list of the funds and scholarships follows.

The Rhode Island Society for the Collegiate Education of Women has founded a Loan Fund from which students of the Women's College who have completed their first year may borrow small sums on easy terms. This fund is available only for students whose record for scholarship is satisfactory to the committee which administers the loans. Further information may be obtained from the Dean.

The Rhode Island Women's Club annually devotes the income of its Churchill Fund toward the payment of the tuition of some student in the Women's College, preferably the daughter of a member of the Club.

The College awards annually from its own funds scholarships of varying amounts, to students in need of financial aid. There are also the following endowed scholarships:

**THE SARAH E. DOYLE SCHOLARSHIP**, of one thousand dollars, bears the name of its founder; the income is applied toward the payment of the tuition of students in the Women's College who have been prepared for college in the Providence English High School.

THE SARAH SUTTON SCHOLARSHIP, of one thousand dollars, founded by one of her daughters.

THE DANIELS SCHOLARSHIP, of twenty-five hundred dollars, the income to be used toward paying the expenses of one or more women pursuing studies either in the University or in the Women's College adjunct thereto.

THE HOWARD SCHOLARSHIP, of one thousand dollars, presented by James Leland Howard.

THE THAYER SCHOLARSHIP, founded by Edward C. Thayer, in honor of his father, Joseph Thayer, of the class of 1815, the income to be for the education of any young man or woman a resident of Uxbridge, Mass., endorsed by the selectmen and superintendent of schools there, needing pecuniary aid, and giving promise by character and scholarship of a life of usefulness. If there is no applicant from Uxbridge, the income may go to any applicant from Massachusetts who fulfils the conditions.

THE MARIA STORRS PECK SCHOLARSHIP, of one thousand dollars, presented by her sisters.

### PRIZES, PREMIUMS, AND HONORS

THE GASPEE CHAPTER DAUGHTERS OF THE AMERICAN REVOLUTION PRIZE. This prize of forty dollars is awarded annually to that student in the graduating class of the Women's College who shall present the best essay of recognized merit upon some topic in American history. The essays are to bear each an assumed name, and to be accompanied by an envelope marked with the assumed name, and enclosing the candidate's real name and address. The essays must be handed to the Dean before May 1. The award is announced at Commencement. The subject for 1909-10 is: *Rhode Island in the Continental Congress*.

THE CHACE PRIZE. The will of Mrs. Elizabeth D. Chace makes provision for a prize of twenty-five dollars, to be awarded to that student of the Women's College who shall present the best essay, of recognized merit, upon the Women's Suffrage Movement.

THE SOCIETY OF COLONIAL DAMES PRIZE IN AMERICAN HISTORY. The income of a fund of fifteen hundred dollars, known as the Roger Williams Fund established by the National Society of Colonial Dames in the State of Rhode Island and Providence Plantations, given to the University in 1906, is awarded annually as a prize for the best essay on a subject in American colonial history. The competition is open to Juniors, Seniors, and Graduates, and to men and women on equal terms. Essays must show independent use of authorities, and should, in general, extend to at least four thousand words. Detailed regulations governing the competition are announced from year to year. The award is announced at Commencement. The subject for 1909-10 is: *The public life of Esek Hopkins*.

**ADDITIONAL PREMIUMS.** The students of the Women's College are entitled to compete in all examinations for premiums and prizes offered in Brown University. In case any woman is entitled to a first premium, competed for by examination, a prize, the amount of which is duly announced, is awarded by the Dean.

**FINAL HONORS** are awarded by the University to women on the same conditions as to men. (See pages 183, 184.)

### PRIZES AND PREMIUMS AWARDED IN 1909

The Gaspee Chapter Daughters of the American Revolution Prize, to  
MARGARET BINGHAM STILLWELL.

The Chace Prize to

BESSIE EDITH BLOOM.

The Society of Colonial Dames Prize to

MARJORIE MAUD STONE.

The Foster Premium in Greek : a collateral first premium to

FRANCES ALLEN FOSTER.

Premiums for excellence in preparatory studies : a collateral first premium in Greek to MARY ELIZABETH BARNICLE, instructed in the Classical High School, Providence.

A collateral first premium in Latin to MARY ELIZABETH BARNICLE, instructed in the Classical High School, Providence.

A collateral first premium in French to DOROTHY DAVIS, instructed in the Hope Street High School, Providence.



# STUDENTS IN THE WOMEN'S COLLEGE

## SENIORS : CLASS OF 1910

| NAME                     | RESIDENCE                    |
|--------------------------|------------------------------|
| Gertrude Mary Allen      | <i>Riverside</i>             |
| Lida May Bassett         | <i>Plymouth, Mass.</i>       |
| Agnes Marie Blaine       | <i>New York, N. Y.</i>       |
| Gwendolen Blodgett       | <i>Providence</i>            |
| Elizabeth Marie Boardman | <i>Providence</i>            |
| Dorothy Bourne           | <i>Pontiac</i>               |
| Alma Romaine Brown       | <i>Attleboro, Mass.</i>      |
| Harriet Josephine Buck   | <i>Mansfield, Mass.</i>      |
| Annie Esther Burnside    | <i>Pawtucket</i>             |
| Mabel Kincaid Bushell    | <i>Providence</i>            |
| Stella Risley Clemence   | <i>Providence</i>            |
| Alice Frances Cook       | <i>Georgiaville</i>          |
| Lillian Ruth Cosgrove    | <i>Brockton, Mass.</i>       |
| Florence Alice Crossley  | <i>Providence</i>            |
| Marion Elizabeth Dean    | <i>Taunton, Mass.</i>        |
| Lydia Theodora Dobler    | <i>Providence</i>            |
| Helen Emilie Gindele     | <i>Pawtucket</i>             |
| Alice Scott Maile        | <i>Los Angeles, Cal.</i>     |
| Elizabeth Morrison       | <i>Providence</i>            |
| Caroline Millard Morton  | <i>Providence</i>            |
| Hazel Louise Raybold     | <i>Providence</i>            |
| Marion Augusta Richards  | <i>Attleboro, Mass.</i>      |
| Bernice Estelle Sears    | <i>Providence</i>            |
| Abbie Deborah Steere     | <i>Hingham Centre, Mass.</i> |
| Marjorie Maud Stone      | <i>Providence</i>            |
| Mary Clegg Suffa         | <i>Providence</i>            |
| Alice Ida Sweet          | <i>Providence</i>            |
| Leila Tucker             | <i>Providence</i>            |
| Alice Mary Wilbur        | <i>Mansfield, Mass.</i>      |
| Mildred Corinne Williams | <i>Providence</i>            |
| Isabel Stuart Wood       | <i>East Greenwich</i>        |

## JUNIORS : CLASS OF 1911

|                          |                          |
|--------------------------|--------------------------|
| Lydia Harris Andrews     | <i>Providence</i>        |
| Irene Maude Bedell       | <i>Livingston, N. J.</i> |
| Helen Newell Bell        | <i>Bristol</i>           |
| Bessie Edith Bloom       | <i>Providence</i>        |
| Ruth Constance Burroughs | <i>Pawtucket</i>         |
| Florence Horner Bushell  | <i>Providence</i>        |

# THE WOMEN'S COLLEGE

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| NAME                              | RESIDENCE                   |
|-----------------------------------|-----------------------------|
| Gertrude Hildreth Campbell        | <i>East Providence</i>      |
| Anna Spencer Canada               | <i>New Bedford, Mass.</i>   |
| Edith Marie Linnea Carlborg       | <i>Providence</i>           |
| Alletta Kreemer Chamberlain       | <i>Central Falls</i>        |
| Lyla Cameron Crapo                | <i>Taunton, Mass.</i>       |
| Emma Henrietta Dahlgren           | <i>Attleboro, Mass.</i>     |
| Arline Field                      | <i>Providence</i>           |
| Stella Gerber                     | <i>Webster, Mass.</i>       |
| Mildred Annie Hatch               | <i>Riverside</i>            |
| Sadie Hewitt                      | <i>Attleboro, Mass.</i>     |
| Alice Frances Hildreth            | <i>Providence</i>           |
| Elizabeth Wilson Hughes           | <i>Avalon, Pa.</i>          |
| Alice Dudley Holman               | <i>Taunton, Mass.</i>       |
| Edith Lauraette Knights           | <i>Riverside</i>            |
| Marion Bowler Lester              | <i>Newport</i>              |
| Catherine Virginia Golding Levere | <i>Bristol</i>              |
| Mary Catherine McMahon            | <i>Pawtucket</i>            |
| Eva Waterman Magoon               | <i>Providence</i>           |
| Sallie Wolff Mielatz              | <i>Saunderstown</i>         |
| Jeannette Bell Moffitt            | <i>Providence</i>           |
| Irene Doré Nelson                 | <i>New York, N. Y.</i>      |
| Hannah Senior Nicholson           | <i>Pawtucket</i>            |
| Catherine Frances Nulty           | <i>Woonsocket</i>           |
| Bertha Annie Payson               | <i>Rockport, Me.</i>        |
| Clara Irene Perry                 | <i>Providence</i>           |
| Jennie Fatima Robinson            | <i>Brockton, Mass.</i>      |
| Clara Ailman Stanhope             | <i>Newport</i>              |
| Elizabeth Dexter Thacher          | <i>Pawtucket</i>            |
| Grace Mehitabel Thompson          | <i>West Townsend, Mass.</i> |
| Rebecca Samuel Watson             | <i>Providence</i>           |
| Flora Ella Wilbur                 | <i>Natick</i>               |
| Marjorie Phillips Wood            | <i>Taunton, Mass.</i>       |
| Nina Emma Woodbury                | <i>Providence</i>           |

## SOPHOMORES: CLASS OF 1912

|                          |                                |
|--------------------------|--------------------------------|
| Elsie Angelène Anderson  | <i>East Bridgewater, Mass.</i> |
| Lottie Maria Angell      | <i>Pomfret, Ct.</i>            |
| Rose Mary Bancroft       | <i>Glastonbury, Ct.</i>        |
| Harriet Colburn Bennett  | <i>Providence</i>              |
| Mildred Catherine Bishop | <i>North Attleboro, Mass.</i>  |
| Annie Phillips Borland   | <i>Providence</i>              |
| Elizabeth Johnston Brown | <i>Pawtucket</i>               |
| Gertrude Morton Butler   | <i>Mansfield, Mass.</i>        |

## BROWN UNIVERSITY

| NAME                       | RESIDENCE                 |
|----------------------------|---------------------------|
| Elinor Margaret Caldwell   | <i>Pawtucket</i>          |
| Marion Frances Catlin      | <i>Arlington, Mass.</i>   |
| Margaret Brooks Church     | <i>Providence</i>         |
| Margaret Griswold Collins  | <i>Bridgeport, Ct.</i>    |
| Gertrude Mary Conant       | <i>Pawtucket</i>          |
| Marion Jane Emsley         | <i>Pascoag</i>            |
| Minnie May Fogg            | <i>Laconia, N. H.</i>     |
| Irene Hawes                | <i>Riverside</i>          |
| Alice Hubbard              | <i>Providence</i>         |
| Beatrice Florence Kohlberg | <i>Providence</i>         |
| Regina Theresa Loftus      | <i>North Adams, Mass.</i> |
| Clare Edgarton Longley     | <i>Worcester, Mass.</i>   |
| Jessie Isabelle Monroe     | <i>Providence</i>         |
| Ida May Nichols            | <i>Providence</i>         |
| Annie Pickles              | <i>Providence</i>         |
| Ollie Annette Randall      | <i>Providence</i>         |
| Clarice Emily Ryther       | <i>Norwich, Ct.</i>       |
| Florence Binford Southwick | <i>Pawtucket</i>          |
| Margaret Parkhurst Stevens | <i>Newport</i>            |
| Marion Slater Stone        | <i>Providence</i>         |
| Mary Sweetland             | <i>Providence</i>         |
| Ann Eliza Thomas           | <i>Woonsocket</i>         |
| Hazel Marguerite Valentine | <i>Westbrook, Me.</i>     |
| Dorothy Charlotte Walter   | <i>Lyndonville, Vt.</i>   |
| Irene Warren               | <i>New Haven, Ct.</i>     |
| Dorothy Starr Wood         | <i>Providence</i>         |

## FRESHMEN: CLASS OF 1913

|                             |                           |
|-----------------------------|---------------------------|
| Mary Elizabeth Barnicle     | <i>Providence</i>         |
| Jessie Helen Barr           | <i>Providence</i>         |
| Helen Irene Barrett         | <i>Providence</i>         |
| Marion Hortense Bayley      | <i>Newburyport, Mass.</i> |
| Irene Mary Cecilia Belanger | <i>New Bedford, Mass.</i> |
| Violet Graham Bloomfield    | <i>Central Falls</i>      |
| Marilla Letitia Bogle       | <i>Fall River, Mass.</i>  |
| Mildred Ethel Bosworth      | <i>Georgiaville</i>       |
| Aline Bourgeois             | <i>Newport</i>            |
| Hilda Rowena Bronson        | <i>Morgan Park, Ill.</i>  |
| Rosalind Celestine Brooks   | <i>Providence</i>         |
| Anna Maria Browne           | <i>Pawtucket</i>          |
| Mildred Browning            | <i>Pawtucket</i>          |
| Susan Amanda Browning       | <i>Westerly</i>           |
| Gladys Chidley Bushell      | <i>Providence</i>         |

# THE WOMEN'S COLLEGE

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| NAME                         | RESIDENCE                    |
|------------------------------|------------------------------|
| Mary Fifield Clarke          | <i>Centreville</i>           |
| Edith Frances Coolidge       | <i>Fall River, Mass.</i>     |
| Lillian Lucy Davenport       | <i>Pawtucket</i>             |
| Dorothy Davis                | <i>Providence</i>            |
| Hermione Louise Dealey       | <i>Providence</i>            |
| Vida Maud Dexter             | <i>Providence</i>            |
| Norah Eloise Dowell          | <i>Greystone</i>             |
| Cornelia Fill                | <i>Springfield, Mass.</i>    |
| Hazel Mellie Fowler          | <i>Newburyport, Mass.</i>    |
| Marion Bristow Greene        | <i>Providence</i>            |
| Helen Matilda Hastings       | <i>Feeding Hills, Mass.</i>  |
| Lucile Spencer Himes         | <i>Phenix</i>                |
| Sarah Ann Holt               | <i>Pawtucket</i>             |
| Theckla Jones                | <i>Westerly</i>              |
| Mary Madeleine Kane          | <i>Pontiac</i>               |
| Elva Marion Lake             | <i>Fall River, Mass.</i>     |
| Alice Victoria Lisk          | <i>Hackensack, N. J.</i>     |
| Barbara Littlefield          | <i>Providence</i>            |
| Marion Rawson Luther         | <i>Providence</i>            |
| Isabel McMurtry              | <i>Providence</i>            |
| Ottillie Rose Metzger        | <i>Providence</i>            |
| Annie Evelyn Ottley          | <i>Wickford</i>              |
| Gladys Paine                 | <i>Providence</i>            |
| Winifred Augusta Palmer      | <i>Cranston</i>              |
| Bessie Gertrude Roche        | <i>Thorndike, Mass.</i>      |
| Ruth Elizabeth Ryther        | <i>Norwich, Ct.</i>          |
| Blanche Gertrude Snow        | <i>Pawtucket</i>             |
| Harriet Marguerite Stadtfeld | <i>Phenix</i>                |
| Alice Eva Steere             | <i>Hingham Centre, Mass.</i> |
| May Monica Sutcliffe         | <i>Pawtucket</i>             |
| Minnie White Taylor          | <i>Providence</i>            |
| Evelyn Butler Tilden         | <i>Peru, Vt.</i>             |
| Hazelle Marie Underwood      | <i>Providence</i>            |
| Elizabeth Wave Whitman       | <i>Pawtucket</i>             |
| Catherine Slocum Williams    | <i>Newport</i>               |

## SPECIAL STUDENTS

|                           |                      |
|---------------------------|----------------------|
| Sarah Welcome Baker       | <i>Central Falls</i> |
| Grace Emeline Barstow     | <i>Providence</i>    |
| Mela Elsie Bennett        | <i>Providence</i>    |
| Helen Henderson Blumer    | <i>Providence</i>    |
| Margaret Harrison Bradley | <i>Providence</i>    |
| Annie Louise Campbell     | <i>Providence</i>    |

| NAME                          | RESIDENCE                   |
|-------------------------------|-----------------------------|
| Alice Bolting Copeland        | <i>Providence</i>           |
| Laura Elizabeth Cooke         | <i>Providence</i>           |
| Sarah Cranston                | <i>Providence</i>           |
| Marguerite Cross              | <i>Providence</i>           |
| Mabel Ellinwood               | <i>Providence</i>           |
| Lena Mary Farrar              | <i>Providence</i>           |
| Grace Duffield Goodwin        | <i>Pawtucket</i>            |
| Margaret Guild                | <i>Providence</i>           |
| Katharine Carver Gurney       | <i>Providence</i>           |
| Sarah Bullock Harris          | <i>Providence</i>           |
| Nina Grantham Hiron           | <i>Pawtucket</i>            |
| Charlotte May Huntoon         | <i>Baldwinsville, N. Y.</i> |
| Jessie Crum Meiklejohn        | <i>Pawtucket</i>            |
| Helen Pierce Metcalf          | <i>Providence</i>           |
| Sarah Elizabeth Minchin       | <i>Providence</i>           |
| Mary Richmond Manton Mitchell | <i>Providence</i>           |
| Mildred Louise Mott           | <i>Providence</i>           |
| Frances Semle                 | <i>Providence</i>           |
| Caroline Eliza Spring         | <i>Providence</i>           |
| Leola Belle Warburton         | <i>Central Falls</i>        |
| Elizabeth Louise Weed         | <i>Providence</i>           |
| Marjorie Adelle White         | <i>Danforth, Me.</i>        |
| Elizabeth Upham Yates         | <i>Providence</i>           |



## APPENDIX

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### THE BROWN UNIVERSITY TEACHERS' BUREAU

THE Brown University Teachers' Bureau was established for the purpose of facilitating communication between the heads of educational institutions and graduates of Brown who desire positions as teachers. To this end it solicits correspondence with those who are seeking teachers, and invites inspection of the list of teachers now registered. It advises graduates of Brown who wish its assistance to register at once, and, if possible, to meet the Secretary in a personal interview. It offers to undergraduates information as to subjects in which there is a demand for teachers, as to positions commonly open to recent graduates, and as to the preparation usually required. No charge for the services of the Bureau is made either to students or to schools. It is the further purpose of the Bureau to foster coöperation between the University and all graduates engaged in the work of education. As far as possible an accurate register of the addresses and the positions of all such graduates is kept. The office of the Secretary, Professor WALTER BALLOU JACOBS, is in the Administration Building, Room 10.

### THE BROWN UNIVERSITY BUREAU OF APPOINTMENTS

This Bureau has been established to assist former students of the University in securing other kinds of employment than those cared for by the Teachers' Bureau. It desires to obtain from friends of the University information in regard to positions available for college men. This information it will supply to those who may register with the Bureau. Blanks for this purpose may be obtained from the Secretary and no charge will be made for the services of the Bureau. The office of the Secretary, Professor Ansel Brooks, is in the Engineering Building, Room 15.

### THE BROWN UNIVERSITY TEACHERS' ASSOCIATION

The Brown University Teachers' Association was organized in 1903. The purpose of the Association is "first, to further the mutual interests of Brown

University and the schools preparing students therefor; and second, to promote the welfare of the Alumni of the University who are teachers." The seventh annual meeting of the Association was held at Brown University on Friday and Saturday, April 2 and 3, 1909.

#### OFFICERS FOR 1909-10

*President:* PROFESSOR NATHANIEL FRENCH DAVIS, LL.D.

*First Vice-President:* ISAAC BRONSON BURGESS, A.M.

*Second Vice-President:* PROFESSOR ALBERT GRANGER HARKNESS, LITT.D.

*Secretary:* PROFESSOR WALTER BALLOU JACOBS, A.M.

*Treasurer:* CLARENCE HARTWELL MANCHESTER, A.M.

*Executive Committee:* THE OFFICERS OF THE ASSOCIATION AND THE PRESIDENT OF THE UNIVERSITY, *ex officio*; FRED DAVIS ALDRICH, A.M.; PROFESSOR JAMES QUAYLE DEALEY, PH.D.; HARRIET PIERCE FULLER, A.M.

### THE RHODE ISLAND ALPHA OF THE PHI BETA KAPPA SOCIETY

#### OFFICERS AND COMMITTEES FOR 1909-10

*President:* REV. WILLIAM HENRY LYON, D.D.

*Vice-President:* PROFESSOR ALBERT GRANGER HARKNESS, LITT.D.

*Secretary:* PROFESSOR OTIS EVERETT RANDALL, PH.D.

*Treasurer:* ROBERT PERKINS BROWN, A.M.

*Committee on Nominations:* PROFESSOR WINSLOW UPTON, SC.D., HENRY FREDERIC LIPPITT, A.B., CHARLES TALBOT DORRANCE, A.B., DANIEL BECKWITH, A.B., HAROLD CRINS FIELD, A.B.

*Committee on Arrangements:* PROFESSOR WALTER COCHRANE BRONSON, LITT.D., HON. CHARLES CARNEY MUMFORD, A.M., HON. WILLIAM WILBERFORCE DOUGLAS, LL.D.

*Auditing Committee:* WALTER JAMES TOWNE, A.M., WILLIAM WASHBURN MOSS, A.M.

*Committee on New Chapters:* PROFESSOR OTIS EVERETT RANDALL, PH.D., PROFESSOR WALTER BALLOU JACOBS, A.M., REV. THOMAS ELLIOTT BARTLETT, A.B.

#### MEN ELECTED IN 1909

*Seniors:* IRVING WHITMAN BOGLE, ROBERT FOSTER CHAMBERS, HENRY EDWIN FOWLER, CHARLES EVANS HUGHES, JR., JOHN JOSEPH SULLIVAN, ROBERT CAMPBELL WEED.

*Juniors:* KENNETH FIELD ALBEE, MAXWELL BARUS, HAROLD MAURICE FROST, WARREN CLIFFORD JOHNSON, EDWARD HILTON MASON, JR., STEPHEN DAVID PADDOCK, HOWARD ALFRED TABER, CLIFTON HENRY WALCOTT.

## WOMEN ELECTED IN 1909

*Seniors:* ELIZABETH MARY EATON, MARGUERITE GRACE FROST, MARGARET BINGHAM STILLWELL.

*Juniors:* LILLIAN RUTH COSGROVE, LYDIA THEODORA DOBLER, CAROLINE MIL-LARD MORTON.

## THE BROWN CHAPTER OF THE SOCIETY OF THE SIGMA XI

Students who have taken at least seventy-eight term hours in pure or applied science are, in their Senior year, eligible to membership in the honorary scientific society, Sigma Xi, provided that they have "given promise of marked ability in those lines of work which it is the object of the Society to promote."

## OFFICERS AND COMMITTEES FOR 1909-10

*President:* Professor ALBERT DEFOREST PALMER, Jr., PH.D.

*Vice-President:* Professor FREDERIC POOLE GORHAM, A.M.

*Recording Secretary:* Professor CHARLES WILSON BROWN, A.M.

*Corresponding Secretary:* Professor ANSELL BROOKS, M.E.

*Treasurer:* Professor JAMES FRANKLIN COLLINS, PH.B.

*Auditor:* HENRY BERNARDIN DROWNE, C.E.

*Councillor:* Professor JOHN EDWARD HILL, Sc.D.

*Committee on Nominations:* Professor ALBERT DEFOREST PALMER, Jr., PH.D., Professor CHARLES WILSON BROWN, A.M., Professor NATHANIEL FRENCH DAVIS, LL.D., Professor ALBERT DAVIS MEAD, PH.D., Professor WINSLOW UPTON, Sc.D.

## MEMBERS ELECTED IN 1909

*Faculty:* Professor Herbert Eugene Walter.

*Graduate Student:* Harry Duffield Clough, '08.

*Seniors:* Jarvis Howard Alger, Frederick May Boyce, Charles Lewis Brightman, Harold Bowen Edmundson, George Thomas Huxford, Julius Lasker, Chester Linwood Nourse, Irving Wooster Patterson, Frank Carter Taylor, Robert Campbell Weed, Sydney Wilmot.

## THE ASSOCIATED ALUMNI

## OFFICERS AND COMMITTEES FOR 1909-10

*President:* Rt. Rev. FREDERICK BURGESS, D.D., Garden City, N. Y.

*Vice-Presidents:* SAMUEL HANSON ORDWAY, A.M., New York City; WILLIAM HOWARD SWEETLAND, A.M., Providence, R. I.

*Secretary:* ALBERT KNIGHT POTTER, A.M., Providence, R. I.

*Treasurer:* ROBERT WENDELL TAFT, PH.B., Providence, R. I.

*Executive Committee:* FRANK WILLINGTON MATTESON, PH.B., JOHN BYRON DIMAN, A.M., HENRY ALLEN WHITMARSH, M.D., JAMES MONROE PENDLETON, A.M., ISAAC BRONSON BURGESS, A.M.

*Advisory Board:* CHARLES CARNEY MUMFORD, A.M., WILLIAM RICHARDSON DORMAN, LL.B., GEORGE FREMONT BEAN, LL.B., ALBERT KNIGHT POTTER, A.M., *ex officio*, and representatives chosen by the Alumni Associations.

## THE ALUMNAE ASSOCIATION OF BROWN UNIVERSITY

### OFFICERS FOR 1909-10

*President:* Mrs. WALTER COCHRANE BRONSON, A.M., Providence, R. I.

*Vice-President:* Miss SARAH GRIDLEY ROSS, A.B., Providence, R. I.

*Recording Secretary:* Mrs. DAVID POTTER MOULTON, A.M., Providence, R. I.

*Corresponding Secretary:* Miss MARY DREW VAUGHAN, PH.B., 150 Pitman Street, Providence, R. I.

## ALUMNI ASSOCIATIONS

BOSTON. *President*, George F. Bean, '81. *Vice-President*, Joseph Walker, '87. *Treasurer*, Fred W. Woodcock, '91. *Secretary*, Rufus E. Corlew, '98, 29 Beacon Street, Boston.

NEWPORT. *President*, Alan R. Wheeler, '01. *First Vice-President*, William R. Harvey, '01. *Second Vice-President*, William P. Buffum, '79. *Secretary and Treasurer*, Clarence A. Carr, '87, 209 Spring Street, Newport, R. I.

WOONSOCKET. *President*, Arthur M. M. Comee, '99. *Vice-President*, Frank W. Senior, '97. *Treasurer*, L. Herbert Ballou, '05. *Secretary*, Frederic E. Whitaker, '88, Woonsocket, R. I.

FALL RIVER. *President*, John P. Gage, '92. *Vice-President*, Frank E. Fash, '02. *Secretary and Treasurer*, Augustus J. Wood, Ex. '95, Fall River, Mass.

WORCESTER COUNTY SONS OF BROWN. *President*, Appleton P. Williams, '89. *Vice-President*, John A. Clough, '99. *Secretary and Treasurer*, Winfred H. Whiting, '01, 626 Slater Building, Worcester, Mass.

CONNECTICUT VALLEY. *President*, Arthur D. Call, '96. *Vice-President*, Luther White, '64. *Secretary and Treasurer*, Arthur S. Gaylord, '02, South Hadley Falls, Mass.

NEW BEDFORD. *President*, Allen F. Wood, '69. *First Vice-President*, Theodore B. Baylies, '95. *Second Vice-President*, Edward T. Tucker, '71. *Secretary and Treasurer*, Edward W. Holmes, '03, 661 County Street, New Bedford.

- WASHINGTON AND NEW LONDON COUNTIES. *President*, Henry R. Palmer, '90. *Secretary*, Charles I. Gates, '99, Westerly, R. I.
- BRISTOL. *President*, Augustus O. Bourne, '55. *Vice-Presidents*, Nathaniel G. Herreshoff, h. '96, William R. Trotter, '80. *Treasurer*, Clinton T. Sherman, Ex. '93. *Secretary*, Lyndon L. Anderström, 70 Church Street, Bristol, R. I.
- NEW YORK CITY. *President*, Samuel H. Ordway, '80. *Vice-President*, John B. F. Herreshoff, '70. *Treasurer*, William R. Dorman, '92. *Secretary*, Alfred B. Meacham, '96, 59 Wall Street, New York, N. Y.
- ALBANY. *Honorary President*, Charles E. Hughes, '81. *President*, Edward W. Babcock, '74. *Vice-President*, Collins M. Graves, '95. *Treasurer*, Crawford R. Green, '02. *Secretary*, Stewart A. McComber, '96, Union College, Schenectady, N. Y.
- CENTRAL NEW YORK. *President*, Frederick R. Hazard, '81. *Vice-President*, Jay S. Fox, '94. *Secretary and Treasurer*, Warren G. Bullard, '92, 613 South Crouse Avenue, Syracuse, N. Y.
- ROCHESTER. *President*, Clarence A. Barbour, '88. *Secretary and Treasurer*, Henry C. Peepels, '81, 188 Harvard Street, Rochester, N. Y.
- PHILADELPHIA. *President*, Richard M. Atwater, '65. *First Vice-President*, Edwin S. Thompson, '86. *Second Vice-President*, Rev. Frank A. Smith, '89. *Treasurer*, J. Benton Porter, '90. *Secretary*, Dr. W. H. Bennett, '79. *Assistant Secretary*, Pierson T. Fort, Ex. '95, 414 West Stafford Street, Germantown, Penn.
- PITTSBURGH. *President*, William E. Lincoln, '68. *Vice-President*, Charles H. Zug, '54. *Secretary and Treasurer*, Charles A. Powers, '02, Westinghouse Building, Pittsburgh, Pa.
- MARYLAND AND DISTRICT OF COLUMBIA. *President*, William A. Wilbur, '88. *Vice-President*, Herbert E. Day, '93. *Secretary*, William A. Slade, '98, Librarian, National Monetary Commission, Washington, D. C.
- CLEVELAND. *President*, Frank P. Whitman, '74. *Vice-President*, Newton S. Calhoun, '79. *Secretary and Treasurer*, Charles J. Foskett, Ex. '96, 1419 East 93d Street, Cleveland.
- CINCINNATI. *President*, Eliab W. Coy, '58. *Vice-President*, William H. Pabodie, '55. *Secretary*, Samuel W. Smith, '80, Madison Road, Cincinnati, Ohio.
- CHICAGO. *President*, George Packard, '89. *Vice-President*, Elam L. Clarke, '85. *Secretary and Treasurer*, Frank L. Morse, '86, 6432 Monroe Avenue, Chicago, Ill.
- NORTHWESTERN. *President*, Claude E. Stevens, '01. *Treasurer*, William G. Jones, Ex. '90. *Secretary*, Moncrieffe Cameron, '00, Seattle, Wash.
- ST. LOUIS. *President*, David S. H. Smith, '62. *Treasurer*, John B. Edwards, '96. *Secretary*, Augustus L. Abbott, '80, Times Building, St. Louis, Mo.



ROCKY MOUNTAIN. *President*, Franklin E. Brooks, '83. *Vice-President*, Charles P. Bennett, '79. *Treasurer*, C. Henry Smith, '99. *Secretary*, Charles P. Bennett, '79, Colorado Springs, Col.

JAPAN. *Secretary*, Walter B. Bullen, '99, 27 Nakajima Cho, Sendai, Japan.

# TABLE SHOWING RENT AND LOCATION OF DORMITORY ROOMS

## HOPE COLLEGE

| <i>No.</i> | <i>Division</i> | <i>Floor</i> | <i>Windows face</i> | <i>Bedrooms</i>   | <i>Rent</i> |
|------------|-----------------|--------------|---------------------|---|-------------|
| 1          | South           | 1            | E. & S.             | There are no separate bedrooms, but Nos. 1 and 2, 5 and 6, 9 and 10, 35 and 36, 39 and 40, 43 and 44,<br>can be used either as suites or as single rooms. | \$126       |
| 2          | "               | "            | W. & S.             |   | 132         |
| 3          | "               | "            | W.                  |   | 126         |
| 4          | "               | "            | E.                  |   | 123         |
| 5          | "               | 2            | E. & S.             |   | 126         |
| 6          | "               | "            | W. & S.             |   | 132         |
| 7          | "               | "            | W.                  |   | 126         |
| 8          | "               | "            | E.                  |   | 123         |
| 9          | "               | 3            | E. & S.             |   | 117         |
| 10         | "               | "            | W. & S.             |   | 123         |
| 11         | "               | "            | W.                  |   | 117         |
| 12         | "               | "            | E.                  |   | 111         |
| 13         | "               | 4            | E. & S.             |   | 111         |
| 14         | "               | "            | W. & S.             |   | 117         |
| 15         | "               | "            | W.                  |   | 111         |
| 16         | "               | "            | E.                  |   | 108         |
| 17         | Middle          | 1            | E.                  |   | 123         |
| 18         | "               | "            | W.                  |   | 126         |
| 19         | "               | "            | W.                  |   | 126         |
| 20         | "               | "            | E.                  |   | 123         |
| 21         | "               | 2            | E.                  |   | 123         |
| 22         | "               | "            | W.                  |   | 126         |
| 23         | "               | "            | W.                  |   | 126         |
| 24         | "               | "            | E.                  |   | 123         |
| 25         | "               | 3            | E.                  |   | 111         |
| 26         | "               | "            | W.                  |   | 117         |
| 27         | "               | "            | W.                  |   | 117         |
| 28         | "               | "            | E.                  |   | 111         |
| 29         | "               | 4            | E.                  |   | 108         |
| 30         | "               | "            | W.                  |   | 111         |
| 31         | "               | "            | W.                  |   | 111         |
| 32         | "               | "            | E.                  |   | 108         |
| 33         | North           | 1            | E.                  |   | 123         |
| 34         | "               | "            | W.                  |   | 126         |
| 35         | "               | "            | W.                  |   | 138         |
| 36         | "               | "            | E.                  |   | 138         |
| 37         | "               | 2            | E.                  |   | 123         |
| 38         | "               | "            | W.                  |   | 126         |
| 39         | "               | "            | W. & N.             |   | 138         |
| 40         | "               | "            | E. & N.             |   | 138         |
| 41         | "               | 3            | E.                  |   | 111         |
| 42         | "               | "            | W.                  |   | 117         |
| 43         | "               | "            | W. & N.             |   | 126         |
| 44         | "               | "            | E. & N.             |   | 126         |
| 45         | "               | 4            | E.                  |   | 108         |
| 46         | "               | "            | W.                  |   | 111         |
| 47         | "               | "            | W. & N.             |   | 117         |
| 48         | "               | "            | E. & N.             |   | 117         |

## BROWN UNIVERSITY

## UNIVERSITY HALL

| No. | Division | Floor | Windows face | Bedrooms | Rent  |
|-----|----------|-------|--------------|----------|-------|
| 4   | South    | 1     | W.           | None     | \$130 |
| 10  | "        | 2     | S. & W.      | 2        | 250   |
| 12  | "        | "     | W.           | None     | 115   |
| 13  | "        | "     | W.           | "        | 115   |
| 16  | "        | "     | E.           | "        | 100   |
| 17  | "        | "     | E.           | "        | 106   |
| 18  | "        | "     | E. & S.      | "        | 133   |
| 19  | "        | 3     | S. & W.      | 2        | 240   |
| 21  | "        | "     | W.           | None     | 112   |
| 22  | "        | "     | W.           | "        | 112   |
| 25  | "        | "     | E.           | "        | 100   |
| 26  | "        | "     | E.           | "        | 100   |
| 27  | "        | "     | E. & S.      | "        | 121   |
| 28  | "        | 4     | S. & W.      | 2        | 220   |
| 30  | "        | "     | W.           | None     | 100   |
| 31  | "        | "     | W.           | "        | 100   |
| 33  | "        | "     | E.           | "        | 97    |
| 34  | "        | "     | E. & S.      | "        | 121   |
| 36  | North    | 1     | W.           | "        | 130   |
| 40  | "        | 2     | W.           | "        | 115   |
| 41  | "        | "     | W.           | "        | 115   |
| 43  | "        | "     | W. & N.      | 2        | 250   |
| 44  | "        | "     | E. & N.      | None     | 121   |
| 45  | "        | "     | E.           | "        | 106   |
| 46  | "        | "     | E.           | "        | 106   |
| 47  | "        | 3     | W.           | "        | 106   |
| 48  | "        | "     | W.           | "        | 106   |
| 50  | "        | "     | W. & N.      | 2        | 240   |
| 51  | "        | "     | E. & N.      | None     | 115   |
| 52  | "        | "     | E.           | "        | 100   |
| 53  | "        | "     | E.           | "        | 100   |
| 54  | "        | 4     | W.           | "        | 100   |
| 55  | "        | "     | W.           | "        | 100   |
| 57  | "        | "     | W. & N.      | 2        | 210   |
| 58  | "        | "     | E. & N.      | None     | 115   |
| 59  | "        | "     | E.           | "        | 97    |
| 60  | "        | "     | E.           | "        | 97    |

## SLATER HALL

|      |       |   |            |   |        |
|------|-------|---|------------|---|--------|
| 1    | South | 1 | E. S. & W. | 2 | 260.00 |
| 2    | "     | " | E. & W.    | 1 | 200.00 |
| 3    | "     | 2 | E. S. & W. | 2 | 260.00 |
| 4    | "     | " | E. & W.    | 2 | 245.00 |
| 5    | "     | 3 | E. S. & W. | 2 | 250.00 |
| 6    | "     | " | E. & W.    | 2 | 245.00 |
| 7    | "     | 4 | E. S. & W. | 1 | 175.00 |
| 8, 9 | "     | " | W.         | 1 | 194.00 |
| 10   | North | 1 | E. & W.    | 2 | 269.50 |
| 11   | "     | " | E. W. & N. | 2 | 269.50 |

SLATER HALL (*continued*)

| No.    | Division | Floor | Windows face | Bedrooms | Rent     |
|--------|----------|-------|--------------|----------|----------|
| 12     | North    | 2     | E. & W.      | 2        | \$269.50 |
| 14     | "        | "     | W. N. E.     | 2        | 286.00   |
| 15     | "        | 3     | W. & E.      | 2        | 264.00   |
| 17     | "        | "     | W. N. E.     | 2        | 275.00   |
| 18, 19 | "        | 4     | E. & W.      | 1        | 206.80   |
| 20     | "        | "     | W. N. E.     | 1        | 176.00   |

## CASWELL HALL

|    |        |   |            |             |     |
|----|--------|---|------------|-------------|-----|
| 1  | North  | 1 | E. N. & W. | 1           | 375 |
| 2  | "      | " | E. & W.    | 1           | 350 |
| 3  | "      | 2 | E. N. & W. | 2           | 375 |
| 4  | "      | " | E. & W.    | 2           | 350 |
| 5  | "      | 3 | E. N. & W. | 2           | 375 |
| 6  | "      | " | E. & W.    | 2           | 350 |
| 7  | "      | 4 | E. & N.    | <i>None</i> | 195 |
| 8  | "      | " | W. & N.    | "           | 195 |
| 9  | "      | " | W.         | "           | 165 |
| 10 | "      | " | E.         | "           | 165 |
| 11 | Middle | 1 | "          | "           | 175 |
| 12 | "      | " | W.         | "           | 175 |
| 13 | "      | " | "          | "           | 175 |
| 14 | "      | " | E.         | "           | 175 |
| 15 | "      | 2 | "          | "           | 185 |
| 16 | "      | 2 | W.         | "           | 185 |
| 17 | "      | " | "          | "           | 185 |
| 18 | "      | " | E.         | "           | 185 |
| 19 | "      | 3 | "          | "           | 185 |
| 20 | "      | " | W.         | "           | 185 |
| 21 | "      | " | "          | "           | 185 |
| 22 | "      | " | "          | "           | 185 |
| 23 | "      | 4 | E.         | "           | 165 |
| 24 | "      | " | W.         | "           | 165 |
| 25 | "      | " | "          | "           | 165 |
| 26 | "      | " | E.         | "           | 165 |
| 27 | South  | 1 | E. & W.    | 1           | 350 |
| 28 | "      | 1 | E. S. & W. | 1           | 375 |
| 29 | "      | 2 | E. & W.    | 2           | 350 |
| 30 | "      | " | E. S. & W. | 2           | 375 |
| 31 | "      | 3 | E. & W.    | 2           | 350 |
| 32 | "      | " | E. S. & W. | 2           | 375 |
| 33 | "      | 4 | E.         | <i>None</i> | 165 |
| 34 | "      | " | W.         | "           | 165 |
| 35 | "      | " | W. & S.    | "           | 195 |
| 36 | "      | " | E. & S.    | "           | 195 |

## BROWN UNIVERSITY

## MAXCY HALL

| <i>No.</i> | <i>Floor</i> | <i>Windows face</i> | <i>Rent</i> |
|------------|--------------|---------------------|-------------|
| 313        | 3            | E.                  | \$140       |
| 314        | "            | "                   | 140         |
| 315        | "            | E. & S.             | 140         |
| 316        | "            | W. & S.             | 135         |
| 317        | "            | W.                  | 135         |
| 318        | "            | "                   | 135         |
| 319        | "            | "                   | 135         |
| 320        | "            | "                   | 135         |
| 321        | "            | W. & N.             | 135         |
| 322        | "            | E. & N.             | 140         |
| 323        | "            | E.                  | 140         |
| 324        | "            | "                   | 140         |
| 425        | 4            | "                   | 140         |
| 426        | "            | "                   | 140         |
| 427        | "            | E. & S.             | 140         |
| 428        | "            | W. & S.             | 135         |
| 429        | "            | W.                  | 135         |
| 430        | "            | "                   | 135         |
| 431        | "            | "                   | 135         |
| 432        | "            | "                   | 135         |
| 433        | "            | W. & N.             | 135         |
| 434        | "            | E. & N.             | 140         |
| 435        | "            | E.                  | 140         |
| 436        | "            | "                   | 140         |

## DIRECTORY TO THE DORMITORIES

Hope College, South Division, Rooms 1 to 16.

Hope College, Middle Division, Rooms 17 to 32.

Hope College, North Division, Rooms 33 to 48.

Maxcy Hall, Rooms 313 to 436.

Slater Hall, South Division, Rooms 1 to 9.

Slater Hall, North Division, Rooms 10 to 20.

University Hall, South Division, Rooms 1 to 34.

University Hall, North Division, Rooms 35 to 61.

Caswell Hall, North Division, Rooms 1 to 10.

Caswell Hall, Middle Division, Rooms 11 to 26.

Caswell Hall, South Division, Rooms 27 to 36.



# SUMMARY OF STUDENTS

## UNDERGRADUATE MEN

|                  |           |
|------------------|-----------|
| Seniors          | 123       |
| Juniors          | 145       |
| Sophomores       | 185       |
| Freshmen         | 187       |
| Special Students | 41        |
| Total            | <hr/> 681 |

## THE WOMEN'S COLLEGE

|                  |           |
|------------------|-----------|
| Seniors          | 31        |
| Juniors          | 39        |
| Sophomores       | 34        |
| Freshmen         | 50        |
| Special Students | 29        |
| Total            | <hr/> 183 |

## GENERAL SUMMARY

|                                |           |
|--------------------------------|-----------|
| Graduates                      | 111       |
| Undergraduate Men              | 681       |
| Women's College                | 183       |
|                                | <hr/> 975 |
| Deduct for names counted twice | 8         |
| Total                          | <hr/> 967 |

## DIRECTORY OF OFFICERS AND STUDENTS

The addresses given are in Providence, unless otherwise stated. If an officer is on leave of absence for the year, his name is bracketed. The following abbreviations are used: *Fr.* = Freshman; *So.* = Sophomore; *Jr.* = Junior; *Sr.* = Senior; *Sp.* = Special Student; *Gr.* = Graduate Student; *W.* = Women's College; *J. C. B. L.* = John Carter Brown Library; *H.* = Hope College; *U.* = University Hall; *S.* = Slater Hall; *M.* = Maxcy Hall; *C.* = Caswell Hall; *B.* = Brunonia Hall; 65 College = 65 College Street, Providence, etc. Where no state is mentioned Rhode Island is to be understood. The number *precedes* the name of a street, but *follows* the name of a building.

|  |                                     |  |                          |
|--|-------------------------------------|--|--------------------------|
| Abbott, C. H., <i>Fr.</i>                  | H. 38                               | Anderson, E. A., <i>W. So.</i>               | 66 Benefit               |
| ABERCROMBIE, D. W., <i>Trustee</i>         |                                     | Anderson, J. A., <i>Jr.</i>                  | H. 28                    |
|  | Worcester, Mass.                    | Anderson, P. G. W., <i>Sr.</i>               | 94 Angell                |
| Adams, E. A., <i>So.</i>                   | H. 36                               | ANDERSON, T. D., <i>Sec'y of Corporation</i> | 379 State, Albany, N. Y. |
| Adams, G. A., <i>Sp.</i>                   | B.                                  | Andrews, H. B., <i>So.</i>                   | C. 5                     |
| Adams, H. E., <i>So.</i>                   | H. 32                               | Andrews, L. H., <i>W. Jr.</i>                | 63 Barnes                |
| Adams, R. J., <i>So.</i>                   | 65 College                          | Andrews, R. B., <i>So.</i>                   | 54 College               |
| Akerman, N. B., <i>Sp.</i>                 | Pontiac                             | Angell, L. M., <i>W. So.</i>                 | 98 Cushing               |
| Albee, K. F., <i>Sr.</i>                   | C. 4                                | Anthony, W. B., <i>So.</i>                   | H. 18                    |
| Albrecht, W. H., <i>Gr.</i>                |                                     | Anthony, W. C., <i>Sr.</i>                   | 94 Angell                |
|  | 39 High, Utica, N. Y.               | APPLETON, J. H., <i>Prof.</i>                | 209 Angell               |
| Aldrich, J. M., <i>Sr.</i>                 |                                     | Appleton, P., <i>Jr.</i>                     | No. S.                   |
|  | 89 Albert Ave., Edgewood            | Archambault, C. F., <i>So.</i>               | Arctic                   |
| Algeo, Mrs. S. M., <i>Gr.</i>              | 394 Angell                          | Archie, J. C., <i>Jr.</i>                    | B. 1                     |
| Allen, A. E., <i>Fr.</i>                   | H. 10                               | [ARCHIBALD, R. C.], <i>Instr.</i>            |                          |
| Allen, E. B., <i>Jr.</i>                   | U. 44                               |  | 9 Charles Field          |
| Allen, G. M., <i>W. Sr.</i>                | 98 Cushing                          | Arnold, E. B., <i>Jr.</i>                    | H. 41                    |
| Allen, Miss H., <i>Gr.</i>                 |                                     | ARNOLD, J. O., <i>Physician, W.</i>          |                          |
|  | 118 Lincoln Ave., Fall River, Mass. |  | 101 Brown                |
| Allen, Miss M. P., <i>Gr.</i>              | 84 Upton Ave.                       | Arnold, P. F., <i>Fr.</i>                    | H. 35                    |
| Allen, R. C., <i>Fr.</i>                   | U. 22                               | Arnold, S. T., <i>Fr.</i>                    | U. 52                    |
| Allen, R. D., <i>Sr.</i>                   | H. 10                               | Aron, S. L., <i>Fr.</i>                      | 68 Bishop                |
| Allen, W. L., <i>So.</i>                   | H. 27                               | ARONOVICI, C., <i>Gr., Asst.</i>             | 31 Chestnut              |
| ALLINSON, F. G., <i>Prof.</i>              | 163 George                          | Ashbaugh, R. G., <i>Fr.</i>                  | H. 8                     |
| ALLINSON, Mrs. F. G., <i>Adv. Council,</i> |                                     | Aspinwall, W. M., <i>Fr.</i>                 | H. 6                     |
| <i>W.</i>                                  | 163 George                          |  |                          |
| Altdoerffer, F. E., <i>Fr.</i>             | H. 28                               |  |                          |

- ATWATER, R. M., *Trustee***  
     Chadds Ford, Pa.  
**Atwood, C. W., *Sr.*** 100 Waterman  
**AYER, T. P., *2d Asst. Libn.*** 27 Benefit  
**Ayler, H. R., *Jr.*** U. 55  
**Ayres, C. E., *So.*** H. 44  
  
**Babcock, D. S., *Sr.*** 4 Manning  
**Babington, V. E., *Jr.*** U. 48  
**Bailey, W. E., *Fr.*** M. 321  
**BAILEY, W. W., *Prof. Emeritus***  
     6 Cushing  
**Baines, H. A., *Fr.*** C. 22  
**Baker, M. W., *Jr., Jr.*** H. 33  
**Baker, S. W., *W. Sp.***  
     35 Washington, Central Falls  
**Balliet, E. J., *Fr.*** H. 30  
**Balmforth, E., *Sp.*** 40 Cumerford  
**Bancroft, R. M., *W. So.***  
     114 Narragansett  
**Banks, H. C., *Fr.*** 303 Benefit  
**BARBOUR, T. S., *Trustee***  
     Tremont Temple, Boston, Mass.  
**Barclay, Miss J., *Gr.*** 252 George  
**Barker, E. S., *So.*** H. 19  
**Barker, H. O., *So.*** 54 College  
**Barnicle, M. E., *W. Fr.*** 221 Messer  
**Barr, Miss E. A., *Gr.*** 117 Howell  
**Barr, J. H., *W. Fr.*** 117 Howell  
**Barrett, G. H., *Sr.*** 94 Angell  
**Barrett, H. I., *W. Fr.*** 20 Babcock  
**Barrows, F. C., *Jr., So.*** C. 17  
**Barry, C. A., *Jr.*** H. 48  
**Barry, D. F., *Fr.*** H. 2  
**Barstow, G. E., *W. Sp.*** 224 Angell  
**Bartlett, E. J., *Fr.*** C. 33  
**Bartlett, L. D., *Sp.*** H. 36  
**BARUS, C., *Prof.; Dean of Graduate Dept.*** 30 Elmgrove  
**BARUS, Mrs. C., *Advisory Council, W.***  
     30 Elmgrove  
**Barus, M., *Sr., Gr.*** 54 College  
**Bass, W. J., *Fr.*** H. 4  
**Bassett, L. M., *W. Sr.*** 98 Cushing  
  
**Bayley, M. H., *W. Fr.*** 66 Benefit  
**Bedell, I. M., *W. Jr.*** 184 Meeting  
**Belanger, I. M. C., *W. Fr.***  
     125 Governor  
**Beliafsky, J., *Jr.*** 22 James  
**Bell, H. N., *W. Jr.*** 66 Benefit  
**Bell, K. S., *So.*** H. 47  
**[BENEDICT, G. W.], *Assoc. Prof.***  
     16 John  
**Bengert, E. P., *Jr.*** 489 Hope  
**Bennell, R. J., *Fr.*** S. 3  
**Bennett, A. A., *Sr., Gr.***  
     100 Waterman  
**Bennett, C. B., *Gr.*** 113 East Manning  
**Bennett, H. C., *W. So.***  
     113 East Manning  
**Bennett, M. E., *W. Sp.***  
     113 East Manning  
**Bien, Z. S., *Sp.*** 81 Barnes  
**Bingham, H. E., *So.*** H. 30  
**Bingham, R. W., *Jr.*** U. 26  
**Bishop, L. M., *Sp.*** C. 24  
**Bishop, M. C., *W. So.***  
     108 Grove, No. Attleboro, Mass.  
**Bissell, R. W., *Jr.*** S. 5  
**Blaine, A. M., *W. Sr., Asst. Cataloguer***  
     127 Waterman  
**Blake, F. C., *Fr.*** 9 Searle  
**Blake, S., *So.*** H. 44  
**[BLANCHARD, A. H.], *Assoc. Prof.***  
     62 University Ave.  
**Blanchard, E. H., *Fr.*** U. 53  
**Blanchard, E. P., *So.*** C. 14  
**Bliss, E. F., *Jr.*** C. 18  
**Bliss, H. B., *Jr.*** 41 George  
**Bliss, J. E., *Sr.*** 41 Hawes  
**Blodgett, G., *W. Sr.*** 145 Lloyd  
**Bloom, B. E., *W. Jr.*** 202 Lippitt  
**Blumer, H. H., *W. Sp.*** Duncan Lodge  
**Boardman, E. H., *So.*** H. 22  
**Boardman, E. M., *W. Sr.*** 112 Ring  
**Boas, G., *Fr.*** U. 58  
**Boas, R. P., *Gr., Instr.*** U. 58

- Bohl, L. T., *Fr.* 32 Henry, Edgewood  
 Bloomfield, V. G., *W. Fr.*  
     2 Crossman, Central Falls  
 Bogle, M. L., *W. Fr.* 188 Meeting  
 Borland, A. P., *W. So.* 20 Nebraska  
 Borden-Smith, H. S., *So.* 106 George  
 Bosworth, E. C., *Jr.* Foxboro, Mass.  
 Bosworth, C. W., *Gr.* 94 Angell  
 Bosworth, M. E., *W. Fr.* Georgiaville  
 Bourgeois, A., *W. Fr.* 5 Hidden  
 Bourne, D., *W. Sr.* Pontiac  
 Bourne, Miss L. A., *Gr.* 100 Taber  
 Brackett, E. L., *Fr.* H. 28  
 Brady, F. J., Jr., *Fr.* U. 22  
 Brady, W. A., *Gr.* Narragansett Pier  
 Bradley, M. H., *W. Sp.* 367 Benefit  
 Brazeau, Miss H. C., *Gr.*  
     33 Beech, Pawtucket  
 Breckenridge, A. L., *Jr.* H. 12  
 Brennan, J. B., Jr., *Jr.* U. 16  
 Brett, A. L., *Sr.* B. 10  
 Brewster, G. W., *So.* 94 Angell  
 Briggs, C. W., Jr., *Sr.* 294 Benefit  
 Briggs, L. R., *Fr.* H. 20  
 Bronson, H. R., *W. Fr.* 77 Camp  
 BRONSON, W. C., *Prof.* 77 Camp  
 BROOKS, F. E., *Trustee*  
     Colorado Springs, Col.  
 BROOKS, J. A., *Assoc. Prof.*  
     39 Benevolent  
 Brooks, R. C., *W. Fr.* 29 Fair  
 Brown, A. C., *Fr.* U. 59  
 Brown, Miss A. G., *Gr.*  
     26 Rhode Island Ave.  
 BROWN, A. R., *W. Sr.* 188 Waterman  
 BROWN, C. W., *Asst. Prof.*  
     19 Diman Place  
 Brown, D. L., *So.* S. 15  
 Brown, E. J., *W. So.*  
     14 Orchard, Pawtucket  
 BROWN, Miss G. E., *Sec. to Dean*  
     42 W. Friendship  
 Brown, H. C., *Fr.* U. 52
- Brown, H. P., *Sr.* 509 Park Ave.  
 Brown, H. S., *Fr.* U. 58  
 Brown, J. W., *So.* 316 Eddy  
 BROWN, L., *Trustee*  
     16 Warren, Norwich, Ct.  
 Brown, S. O., *Fr.* 133 Wesleyan Ave.  
 Brown, W. S., *Jr.* U. 19  
 Browne, A. M., *W. Fr.*  
     232 Cottage, Pawtucket  
 Browne, W. W., *Gr.* 94 Angell  
 Browning, M., *W. Fr.* 39 Underwood  
 Browning, S. A., *W. Fr.*  
     254 Washington  
 Brownville, J. W., *Fr.* 94 Angell  
 Bruce, W. B., *Sr.* U. 55  
 BUCHER, J. E., *Assoc. Prof.*  
     35 Humboldt Ave.  
 Buchold, R. G., *Fr.* 94 Angell  
 Buck, F. A., *Jr.*  
     Box 471, Mansfield, Mass.  
 Buck, H. J., *W. Sr.*  
     Peck St., Attleboro, Mass.  
 Bucklin, H. S., *Sr.* H. 23  
 Buddington, A. F., *So.* M. 427  
 Buffum, M. C., *Fr.* C. 31  
 BUMPUS, H. C., *Fellow* [N. Y.  
     Am. Mus. of Nat. Hist. New York,  
 Bumpus, H. C., Jr., *So.* No. S.  
 Bunker, J. W. M., *Gr.*  
     216 Pleasant, Newton Centre, Mass.  
 Burgess, C. E., *Fr.* H. 31  
 Burgess, F., Jr., *So.* C. 26  
 Burgess, G. S., *So.* S. 7  
 Burgess, W. R., *So.* H. 39  
 Burke, H. M., *Jr.* U. 50  
 BURLINGAME, E. A., *Supt. Grounds*  
     and Buildings 359 Brook  
 Burnham, C. E., *So.*  
     17 Nickerson, Pawtucket  
 Burnham, R. E., *Fr.* H. 23  
 Burnside, A. E., *W. Sr.*  
     264 Prospect, Pawtucket  
 Burr, H. C., *Jr.* H. 15

- BURRAGE, H. S., *Fellow* Togus, Me.  
 Burroughs, L. F., *So.* H. 14  
 Burroughs, R. C., *W. Jr.*  
 93 Park Pl., Pawtucket  
 Burton, Miss A. I., *Gr.*  
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 Burwell, J. K., *Fr.* 64 Alumni Ave.  
 Bushell, F. H., *W. Jr.* 617 Hope  
 Bushell, G. C., *W. Fr.* 617 Hope  
 Bushell, M. K., *W. Sr.* 617 Hope  
 Butler, G. M., *W. So.*  
 Mansfield, Mass.  
 Buzzell, E. G., *So.* No. S.  
 CADY, H. D., *Instr.* Warren  
 Cahoon, Miss L. M., *Gr.*  
 218 No. Main, Woonsocket  
 Calder, C. T., *Jr.* 3 Benevolent  
 Caldwell, E. M., *W. So.*  
 42 Walker, Pawtucket  
 Cameron, W. C., *Sr.* 70 Blaisdell  
 Campbell, A. L., *W. Sp.* 43 Moore  
 Campbell, G. H., *W. Jr.*  
 160 Warren Ave., East Providence  
 Canada, A. S., *W. Jr.* 36 Ralph  
 Canfield, R. H. M., *Jr.* 94 Angell  
 Cann, S. J., *Gr.* 23 Walnut  
 Carlborg, E. M. L., *W. Jr.*  
 124 Atlantic Ave.  
 Carman, C. A., *Gr.* 384 Benefit  
 Carpenter, E. S., *Jr.* H. 13  
 Carr, L. H., *Fr.* H. 38  
 Case, R., *Fr.* 4 Manning  
 Case, J. R., *Fr.* H. 29  
 Case, Miss M. W., *Gr.* 53 Grove  
 Casey, J., Jr., *Fr.* 27 Claremont Ave.  
 Caswell, R. G., *So.* H. 47  
 Cate, B. H., *Jr.* H. 34  
 Catlin, M. F., *W. So.* 66 Benefit  
 Caton, E. F., *Sr.* H. 6  
 Cawley, C. J., *Jr.* U. 48  
 Cawthorne, H. F., *Jr.* H. 12  
 CHACE, A. B., *Trustee and Chancellor*  
 324 Angell  
 Chace, H. R., Jr., *Fr.* 54 College  
 CHACE, J., *Trustee* Valley Falls  
 Chace, M. R., *Fr.* M. 430  
 Chace, K. I., *So.* 65 College  
 Chadwick, R. H., *So.* H. 21  
 Chamberlain, A. K., *W. Jr.*  
 781 Broad, Central Falls  
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 89 Courtland  
 Chase, L. C., *Jr.* Plainville, Mass.  
 Chase, R. D., *Jr.* 81 Waterman  
 Chesley, J. O., *Jr.* B. 2  
 CHINARD, G., *Instr.* 64 College  
 Christianson, A. O., *So.* M. 429  
 Christie, C. I., *Jr.* 65 College  
 Church, M. B., *W. So.*  
 292 Wayland Ave.  
 Clark, A. C., *Jr.* U. 60  
 Clark, J. C., *Jr.* 81 Waterman  
 Clark, L. F., *Sr.* U. 38  
 CLARK, T., *Asst. Registrar*  
 152 Congdon  
 Clark, W. I., *So.* 54 College  
 Clarke, M. F., *W. Fr.* Centerville  
 Cleasby, C. S., *Jr.* M. 315  
 Clemence, S. R., *W. Jr.*  
 167 Harrison  
 Cloues, A. S., *So.* C. 34  
 Clough, H. D., *Gr.* U. 38  
 Cobb, G. R., *So.* H. 7  
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 COLLINS, G. L., *Trustee* 223 Benefit  
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 889 No. Main, Pawtucket  
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 Collins, L. R., *Jr.* U. 47  
 Collins, M. G., *W. So.* 98 Cushing



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 Comstock, Miss M. S., *Gr.* 76 Humboldt Ave.  
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 Conant, G. M., *W. So.* 119 Division, Pawtucket  
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 Conant, W. G., *Sr.* H. 18  
 Connor, H. R., *Jr.* 115 Waterman  
 Conyers, H., *Jr.* 904 Cranston  
 Conzelman, J. H., *So.* 94 Angell  
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 Cook, H. L., *So.* C. 25  
 Cook, J. E., *Fr.* M. 429  
 Cook, R. W., *Fr.* 127 Benefit  
 Cooke, L. E., *W. Sp.* 134 Congdon  
 Coolidge, E. F., *W. Fr.* 129 Bridgham  
 Cooper, F. E., *Fr.* H. 27  
 Copeland, A. B., *W. Sp.* 121 Angell  
 Copeland, H., *Sr.* H. 4  
 Corliss, L. I., *Fr.* U. 40  
 Corning, D. D., *So.* H. 40  
 Corp, A. E., *Jr.* 94 Angell  
 Cosgrove, L. R., *W. Sr., Gr.* 12 Congdon  
 Coyne, M. F., *Sp.* 213 Cleveland  
 Cranston, S., *W. Sp.* 247 Bowen  
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 Crapo, L. C., *W. Jr.* 32 Vernon  
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 Creelman, A. D., *Sr.* U. 44  
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 Crosby, T., *Asst. Prof.* 49 George  
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 Crossley, M. L., *Gr., Instr.* H. 46
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 Crowther, G. M., *Fr.* 36 Beech, Pawtucket  
 Crum, R. B., *Fr.* C. 3  
 Cull, J. H., *Sr.* M. 428  
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 Cummings, W. W., *So.* 469 Chalkstone Ave.  
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 Curtis, P. C., *Jr.* 81 Waterman  
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 Davis, F. P., *Fr.* 64 Keene  
 DAVIS, N. F., *Prof.* 159 Brown  
 Davis, R. T., *Sr.* 341 Thayer  
 Dawley, E. P., *Jr.* C. 20  
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 Delany, Miss C. C., *Gr.* 32 Garden, Pawtucket  
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 Dexter, T. E., *Gr.* 46 Washington, Central Falls

Dexter, V. M., *W. Fr.* 91 Lester  
 Dinkins, W. H., *So.* M. 319  
 Dishman, S. B., Jr., *Jr.* B. 2  
 Dobler, L. T., *W. Sr.* 263 Cypress  
 Dodge, W. E., *So.* H. 24  
 Domin, L. V., *So.* C. 34  
 Donle, E. R., *Jr.* 94 Angell  
 Donovan, D. G., *So.* M. 322  
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 Dow, E. A., *Jr.*  
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 Emsley, M. J., *W. So.* Pascoag  
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 Farnsworth, J. P., Jr., *Sr.* No. S.  
 Farnsworth, T. B., *So.* B. 13  
 Farnum, R. B., *Sr.* 132 Bridgham  
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 Ferry, O. R., *So.* M. 316  
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 Field, R. W., *Fr.* Barrington  
 Fill, C., *W. Fr.* 66 Benefit  
 Fitz, E. S., *Jr.* H. 45  
 Fletcher, T. L., *So.* H. 36  
 Fogg, M. M., *W. So.* 66 Benefit  
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 Fowler, H. M., *W. Fr.* 66 Benefit  
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 Francis, P. H., *So.*  
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 Franklin, C. M., *Sp.* C. 18  
 Freeman, W. B., *Sr.* C. 19  
 Frohock, E. P., *Sr.* U. 13  
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 Gallagher, M. H., *Jr.* 121 Angell  
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 Gannon, W. E., *Sr.* 65 College

- GARDNER, H. B., *Prof.* 54 Stimson Ave.  
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 Gardner, K. D., *Fr.* H. 35  
 Gardner, R. N., *Jr.* C. 5  
 Garrett, W. H., *Fr.* U. 43  
 Gelb, V. C., *Fr.* C. 6  
 Gerber, S., *W. Jr.* 66 Benefit  
 Gibbs, F. B., *Fr.* West Barrington  
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 Gifford, C. F., *So.* H. 28  
 Gifford, G. H., *Jr.* C. 12  
 Gilbert, J. J., *So.* U. 16  
 Giles, W. C., *Jr.* 65 College  
 Gillespie, L. J., *Gr.* R. I. Hall  
 Gindele, H. E., *W. Sr.* 80 Spring, Pawtucket  
 Gleason, F. R., *Sp.* C. 12  
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 Goldberg, J. S., *Fr.* C. 22  
 Goodwin, C. L., *Gr.* Lyndonville, Vt.  
 Goodwin, G. D., *W. Sp.* 33 Cottage, Pawtucket  
 Goodwin, W. E., *Sr.* M. 314  
 Gordan, W. F., *Jr., So.* 4 Manning  
 GORHAM, F. P., *Assoc. Prof.* 151 Meeting  
 Gorman, J. L., *Sr.* 65 College  
 Gorman, Miss M. A., *Gr.* 16 Comstock Ave.  
 Gormly, M., *Jr., Jr.* M. 314  
 Gorton, A. T., *Fr.* 665 Plainfield  
 Gould, A. G., *Fr.* M. 315  
 Gould, R. K., *Sr.* U. 40  
 Graham, G., *Gr.* 180 No. Main  
 Grant, C. R., *Fr.* H. 16  
 Grant, M. L., *So.* 176 Prairie Ave.  
 Gray, E. L., *Jr.* 27 Carter  
 GREEN, T. F., *Trustee* 15 Westminster  
 Greene, A. W., *Jr.* 94 Angell  
 GREENE, J. F., *Asst. Prof.* 47 George  
 Greene, M. B., *W. Fr.* 5 Catalpa Rd.  
 Greene, W. W., *Sr.* H. 9  
 Gretsches, A. H., *So.* U. 54  
 Griffin, A. A., *Gr* Wickford  
 GROSE, H. B., *Jr., Instr.* 41 Waterman  
 GROSE, L. R., *Asst.* 41 Waterman  
 Grossman, B., *Fr.* 39 Quaid  
 Grout, H. A., *Fr.* No. S.  
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 Guile, M. E., *W. Sp.* 31 Burnett  
 Guillemette, J. D., *So.* H. 19  
 Gurney, K. C., *W. Sp.* 27 E. Manning  
 Gyllenberg, Miss I. A., *Gr.* 78 Mitchell  
 HAGER, E. R., *Gr., Asst.* 700 Park Ave., Auburn  
 Hahn, C. A., *Fr.* H. 19  
 Hall, J. A., *Sr.* H. 12  
 Ham, A. M., *Sr.* 65 College  
 Hampton, A. J., *Jr.* 183 Sayles Ave., Pawtucket  
 Handy, E. R., *So.* C. 25  
 HARKNESS, A. G., *Prof.* 7 Cooke  
 HARKNESS, S. B., *Instr.* 41 Waterman  
 Harrington, W. G., *Jr.* H. 18  
 Harris, B. M., *Fr.* C. 33  
 Harris, J. E., *Fr.* 4 Bell  
 Harris, S. B., *W. Sp.* 251 Bowen  
 Harris, W. E., *So.* 32 Bradford  
 Harris, W. R., *Fr.* S. 7  
 Hartigan, J. P., *Sr.* U. 50  
 Haskins, H. H., *Jr.* U. 46  
 Hastings, H. M., *W. Fr.* 16 John  
 HASTINGS, W. T., *Instr.* 16 John  
 HASTINGS, Mrs. W. T., *Adv. Council,* 16 John  
 Hatch, M. A., *W. Jr.* 72 Maple Ave., Riverside  
 Hawes, I., *W. So.* Riverside

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| HAZARD, R. G., <i>Fellow</i>               | Peace Dale                | Howe, H. R., <i>Jr.</i>               | 41 George                        |
| Hempel, E. G., <i>Fr.</i>                  | 168 Progress Ave.         | Howe, P. D., <i>Jr.</i>               | 4 Manning                        |
| Henderson, W. B., <i>Sr.</i>               | U. 18                     | Howe, W. M., <i>Fr.</i>               | Seekonk, Mass.                   |
| HÉNIN, B. L. A., <i>Gr., Asst.</i>         | U. 21                     | Howland, H., <i>So.</i>               | 247 Pine                         |
| Hennessy, J. C. A., <i>Sr.</i>             | 4 Manning                 | Howland, P. B., <i>Sr.</i>            | No. S.                           |
| Hennessy, H., <i>So.</i>                   | 4 Manning                 | HOYT, C., <i>Trustee</i>              | 36 Wall, New York                |
| Hewitt, R. W., <i>So.</i>                  | U. 45                     | Hubbard, A., <i>W. So.</i>            | 125 Lloyd Ave.                   |
| Hewitt, S., <i>W. Jr.</i>                  |                           | Hubbard, H. G., <i>Jr.</i>            | H. 48                            |
|  | 78 Peck, Attleboro, Mass. | HUGHES, C. E., <i>Trustee</i>         |                                  |
| Heydon, W. D., <i>Jr.</i>                  | S. 8                      |                                       | Executive Mansion, Albany, N. Y. |
| Hibbs, H. H., Jr., <i>Sr.</i>              | M. 426                    | Hughes, E. W., <i>W. Fr.</i>          | 66 Benefit                       |
| Hicken, G. R., <i>So.</i>                  |                           | HULING, R. G., <i>Trustee</i>         |                                  |
|  | 123 Broad, Pawtucket      |                                       | 10 Hurlburt, Cambridge, Mass.    |
| Higgins, A. H., <i>Fr.</i>                 | H. 40                     | Hull, C. M., <i>So.</i>               | 41 George                        |
| Higgins, E. D., <i>Sp.</i>                 | Riverside                 | Hull, N. B., <i>Fr.</i>               | C. 3                             |
| High, J. F., <i>Jr.</i>                    | H. 37                     | Humphrey, K., <i>So.</i>              | 100 Waterman                     |
| High, L. C., <i>Fr.</i>                    | 333 Laurel Hill Ave.      | HUNKINS, C. H., <i>Instr.</i>         | 107 Angell                       |
| Hildreth, A. F., <i>W. Jr.</i>             |                           | HUNTINGTON, H. B., <i>Asst. Prof.</i> |                                  |
|  | 97 E. Manning             |                                       | 153 Power                        |
| Hill, G. R., <i>Sp.</i>                    | B. 9                      | Huntoon, C. M., <i>W. Sp.</i>         |                                  |
| HILL, J. E., <i>Prof.</i>                  | 86 Taber Ave.             |                                       | 40 Humboldt Ave.                 |
| HILL, Miss S. E., <i>Sec. to Registrar</i> |                           | Hurlin, R. G., <i>So.</i>             | H. 39                            |
|  | 82 Olney                  | Hutchins, R. E., <i>Sr.</i>           | H. 6                             |
| Hills, A. W., <i>Sr.</i>                   | 65 College                | HUXFORD, G. T., <i>Asst.</i>          | H. 26                            |
| Himes, L. S., <i>W. Fr.</i>                | Phenix                    |                                       |                                  |
| Hinckly, J. E., <i>Jr.</i>                 | C. 19                     | Ingalls, W. C., Jr., <i>Sr.</i>       | C. 34                            |
| Hindle, C. D., <i>So.</i>                  | H. 22                     | Isaacson, A. S., <i>Fr.</i>           | U. 41                            |
| Hirons, U. G., <i>W. Sp.</i>               |                           | Jackson, E. E., <i>Jr.</i>            |                                  |
|  | 228 Broadway, Pawtucket   |                                       | 169 Princeton Ave.               |
| Hodgson, J. S., <i>So.</i>                 | U. 19                     | Jackson, W. W., <i>So.</i>            | 12½ Arnold                       |
| Holman, A. D., <i>W. Jr.</i>               | 188 Meeting               | JACOBS, W. B., <i>Prof.</i>           | 310 Olney                        |
| Holman, S. M., Jr., <i>Jr.</i>             | 41 George                 | Jarvis, H. P., <i>Sp.</i>             | B. A                             |
| Holt, N. E., <i>Sr.</i>                    | No. S.                    | Jarvis, S. T., <i>Jr.</i>             | B. 2                             |
| Holt, S. A., <i>W. Fr.</i>                 |                           | Jeffris, M. R., <i>Sr.</i>            | 4 Manning                        |
|  | 11 Hayward, Pawtucket     | Jencks, F. M., <i>Jr.</i>             | West Barrington                  |
| Hood, P. H., <i>So.</i>                    | 100 Waterman              | Jencks, W. L., <i>So.</i>             | H. 6                             |
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| Horrigan, E. J., <i>Fr.</i>                | 899 Manton Ave.           | Jeram, H., <i>Fr.</i>                 | 65 Burnon                        |
| Horton, E. M., <i>Sr.</i>                  | 132 Angell                | JOHNSON, A. B., <i>Assoc. Prof.</i>   |                                  |
| Horton, E. S., <i>Sr.</i>                  | 100 Waterman              |                                       | 168 Walnut, E. Providence        |
| Howarth, J. M., <i>Jr.</i>                 | 304 Benefit               | Johnson, W. C., <i>Sr.</i>            | 100 Waterman                     |

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 JONAS, J. B. E., *Asst. Prof.* 7 Barnes  
 Jones, H. P., *So.* 94 Angell  
 Jones, T., *W. Fr.* 40 Elm, Westerly  
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 Kalajian, A. A. N., *So.* M. 316  
 Kalberg, S. M., *Sr.* U. 34  
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 Kenney, H. W., *So.* M. 313  
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 Kersey, F. X., *Fr.* U. 50  
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 KING, H. M., *Trustee* 8 Cushing  
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 Knights, E. L., *W. Jr.*  
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 167 Wadsworth  
 Kohler, H. L., *Sp.* 65 College  
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 Koopman, K. H., *Fr.* 57 E. Manning  
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 Krause, M., *Sr.* 81 Waterman  
 Kulp, D. H., *Fr.* M. 436  
 Ladner, A. C., *So.* H. 46  
 Lake, E. M., *W. Fr.* 66 Benefit  
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 L'Amoureux, H. D., *Sr.* U. 13  
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 LANGDON, C., *Prof.* 86 Upton Ave.  
 Langdon, D., *Fr.* C. 36  
 Langdon, G. W., *Jr., So.* C. 36  
 Langford, Miss A. G., *Gr.*  
 35 Ridge, Fall River, Mass.  
 Langley, A. L., *Fr.* M. 318  
 LAPHAM, O., *Trustee* 183 Waterman  
 Laraway, Miss I. L., *Gr.*  
 228 Webster Ave.  
 Larkin, D. F., *Fr.* B. 1  
 Larkin, J. C., *Jr.* 120 Waterman  
 Larson, T. M., *Fr.* U. 27  
 LEACH, A. E., *Asst.* 181 Angell  
 Lederer, S. M., *Jr.* H. 37  
 Leith, R. W., *So.* C. 7  
 Leland, C. L., *Jr.* 35 Pitman  
 Lemon, A. B., *Fr.* M. 436  
 Lester, M. B., *W. Jr.* 125 Governor  
 Letts, I. L., *Fr.* C. 8  
 Levere, C. V. G., *W. Jr.* 125 Governor  
 LINCOLN, W. E., *Trustee*  
 815 Amberson Ave., Pittsburgh, Pa.



Lisk, A. V., *W. Fr.* 66 Benefit  
 Littlefield, B., *W. Fr.* 102 Barnes  
 LOCKE, A. W., *Instr.* 75 Medway  
 Loftus, R. T., *W. So.* 56 Stewart  
 Longley, C. E., *W. So.* 184 Meeting  
 Loxley, L. E., *Fr.* 9 Illinois  
 Luber, A., *Fr.* 40 Bowen  
 Luther, M. R., *W. Fr.* 81 Camp  
 Luther, W. B., *Jr.* 41 George  
 Lyall, H. W., *Gr.* 100 Waterman  
 Lynn, W. H., *Sr.* 81 Waterman  
 Lyon, Miss M. C., *Gr.* 169 Congdon

McCaull, J. A., *Fr.*  
 30 Clarendon Ave.

McCausland, Miss E. E., *Gr.*  
 14 E. Manning

McCormick, J. H., *So.* 32 Camp

McCoy, L. A., *Gr.*  
 73 Clyde, Pawtucket

McCoy, O. R., *Gr.*  
 Jackson College, Jackson, Miss.

MacCready, Miss S. E., *Gr.*  
 50 Woodward Rd.

McDaniels, G. D., *Sr.* M. 319

MacDONALD, W., *Prof.* 127 Waterman

McGehearty, J. F. J., *So.* 159 Howell

McGurty, G. H., *Sp.* 8 De Foe Pl.

McIntosh, H. S., *Sr.* 247 Doyle Ave.

McKay, J. R., *Jr.* H. 9

MacLaughlin, J. F., *So.* 26 Amity

McLyman, B. M., *Fr.* M. 317

McMahon, M. C., *W. Jr.*  
 18 Englewood Ave., Pawtucket

MacMillan, H. G., *So.* U. 12

McMurtry, I., *W. Fr.* 41 Moore

McPhail, A. H., *Fr.* 120 Waterman

McPhee, P. D., *Jr.* U. 21

Magoon, E. W., *W. Jr.* 65 Messer

Mahoney, D. L., *Fr.* M. 314

Mahony, D. R., *So.* M. 428

Mahy, Miss M. C., *Gr.* 40 Fourth

Maile, A. S., *W. Sr.*

119 Massasoit Ave., Edgewood

Maker, S., *Fr.* U. 41

Malloy, C. A., *So.* M. 323

MANATT, J. I., *Prof.* 59 Charles Field

MANCHESTER, E. N., *Ref. Librarian;*

*Asst. Keeper of Grad. Records;*

*Archivist* 66 Meeting

MANNING, H. P., *Assoc. Prof.*  
 258 Medway

Mansur, F. L., *Sr.* B. 4

Marble, W. H., *So.* S. 2

Marks, C. F., *Gr.* 341 Thayer

Marsh, E. L., *Gr.* 19 Sumter

Marsh, H. G., *So.* U. 34

Marsh, S. P., *So.* S. 1

MARSTON, E. L., *Trustee*  
 24 Broad, New York

Martel, R. R., *So.* 240 East, Pawtucket

Martin, A. P., *Fr.* U. 30

MARTIN, J. C., *Asst.* 68 Providence

MARVEL, F. W., *Prof.* 281 Olney

Mason, E. H., Jr., *Sr.* 54 College

MASON, E. W., *Trustee* 149 Waterman

MATTESON, G. A., *Univ. Physician*  
 276 Benefit

Matteson, P., *Gr.* 52 Barnes

Mattuck, J. A., *Gr.* 295 Potter Ave.

Maxson, C. C., Jr., *Sp.* 65 College

MEAD, A. D., *Prof.* 283 Wayland Ave

Meckel, R. J. Y., *Jr.* 132 Angell

MEIKLEJOHN, A., *Dean of the Univ.;*  
*Prof.* 30 Cushing

Meiklejohn, J. C., *W. Sp.*  
 118 Prospect Ave., Pawtucket

Mellor, L. L., *So.* M. 432

Mercer, J. M., *Sr.* 54 College

Mercer, K., *Sr.* 54 College

Meredith, M. M., *Sr.* 132 Angell

Metcalf, G. T., *Fr.* H. 34

Metcalf, H. P., *W. Sp.* 132 Bowen

METCALF, S. O., *Trustee* 36 Exch. Pl.

Metzger, O. R., *W. Fr.*

52 Alumni Ave.

Mielatz, S. W., *W. Jr.* 125 Governor

|                                     |                 |                                      |                           |
|-------------------------------------|-----------------|--------------------------------------|---------------------------|
| Miller, B. D., <i>Sr.</i>           | H. 25           | Murphy, E. A. C., <i>Fr.</i>         | H. 3                      |
| Miller, C. W., <i>So.</i>           | H. 9            | Murphy, R. C., <i>Jr.</i>            | 100 Waterman              |
| Miller, E. H., <i>So.</i>           | U. 43           | Murphy, W. T., <i>Fr.</i>            | 10 Maple, Cranston        |
| Minchin, S. E., <i>W. Sp.</i>       | 17 Beacon Ave.  |                                      |                           |
| Miner, I. D., <i>Sp.</i>            | U. 40           | Nash, K. L., <i>So.</i>              | 81 Waterman               |
| Misch, W. P., <i>So.</i>            | M. 317          | Nathanson, S., <i>So.</i>            | H. 48                     |
| Mitchell, M. R. M., <i>W. Sp.</i>   | 612 Angell      | Nelson, H. G., <i>Fr.</i>            | 13 Halsey                 |
|                                     |                 | Nelson, I. D., <i>W. Jr.</i>         | 98 Cushing                |
| MITCHELL, P. H., <i>Instr.</i>      | 157 Williams    | Nelson, W. C., <i>So.</i>            | C. 23                     |
| MITCHELL, R. M., <i>Gr., Instr.</i> | 144 Congdon     | Neves, J. S., <i>Jr.</i>             | U. 48                     |
|                                     |                 | Newell, A. F., <i>So.</i>            | H. 40                     |
| Mitchell, S. L., <i>So.</i>         | U. 25           | Newfield, L. A., <i>Jr.</i>          | H. 33                     |
| Moffett, E. E., <i>Sr., Gr.</i>     | Saylesville     | Newman, L. I., <i>Fr.</i>            | H. 30                     |
| Moffitt, J. B., <i>W. Jr.</i>       | 56 E. Manning   | Nichols, A. C., <i>Fr.</i>           | H. 20                     |
| Mohler, M., <i>Jr.</i>              | 58 College      | Nichols, I. M., <i>W. So.</i>        | 557 Cranston              |
| Monroe, J. I., <i>W. So.</i>        | 107 Davis       | Nicholson, H. S., <i>W. Jr.</i>      | 8 Stuart, Pawtucket       |
| Montz, J. M., <i>Jr.</i>            | U. 34           |                                      |                           |
| Moore, C. H., <i>Fr.</i>            | M. 434          | Nolan, C. A., <i>Jr.</i>             | U. 48                     |
| Moore, G. D., <i>Jr.</i>            | H. 16           | Norton, W. C., <i>Sr.</i>            | U. 53                     |
| Moore, H. B., <i>Fr.</i>            | 33 Angell       | Noyes, E. H., <i>So.</i>             | U. 40                     |
| Morgan, E. F., <i>Fr.</i>           | 94 Angell       | Nulty, C. F., <i>W. Jr.</i>          | 125 Governor              |
| Morgan, R. J., <i>Fr.</i>           | 184 Howell      |                                      |                           |
| Morrill, W. D., <i>Sr.</i>          | 94 Angell       | Oakes, F. B., <i>So.</i>             | 489 E. Ave., Pawtucket    |
| Morris, E. M., <i>Sr.</i>           | H. 42           |                                      |                           |
| Morrissey, J. H., Jr., <i>Sr.</i>   | U. 16           | Oakes, W. C., <i>Sr.</i>             | H. 5                      |
| Morrison, E., <i>W. Sr.</i>         | 319 Broad       | Obear, G. B., <i>Gr.</i>             | 9 Charles Field           |
| Morse, C. D., <i>Fr.</i>            | H. 31           | O'Connor, F. D., <i>So.</i>          | C. 23                     |
| Morse, F. R., <i>So.</i>            | C. 4            | O'Donnell, F. J., <i>Sr.</i>         | H. 43                     |
| MORTON, A. B., <i>Gr., Instr.</i>   | 86 Wood         | Oldfield, H. L., <i>Sr.</i>          | H. 45                     |
| Morton, C. M., <i>W. Sr.</i>        | 135 Superior    | Olsen, A. J., Jr., <i>Gr.</i>        | 28 Grand                  |
| Mott, M. L., <i>W. Sp.</i>          | 21 Portland     | O'Neil, H. B., <i>Sr.</i>            | M. 428                    |
| Mudge, C. S., <i>Jr.</i>            | M. 313          | O'Neil, J. T., <i>Jr.</i>            | U. 51                     |
| Muir, A. W., <i>Sr.</i>             | 100 Waterman    | Ormes, H. A., <i>Jr.</i>             | H. 13                     |
| Muir, H. E., <i>Jr.</i>             | 100 Waterman    | Oshman, L., <i>Fr.</i>               | U. 31                     |
| Mulcahy, F. L., <i>Jr.</i>          | U. 50           | Oslin, J. E., <i>Sr.</i>             | U. 43                     |
| Mumford, N. V. S., <i>So.</i>       | S. 7            | Osteyee, H. F., <i>Fr.</i>           | M. 431                    |
| Munoz, M. A., <i>Fr.</i>            | U. 30           | Ottley, A. E., <i>W. Fr.</i>         | 33 Valley                 |
| Munro, D. G., <i>So.</i>            | No. S.          |                                      |                           |
| Munro, H. W., <i>Fr.</i>            | No. S.          | Paddock, S. D., <i>Sr., Gr.</i>      | H. 34                     |
| MUNRO, W. H., <i>Prof.</i>          | 115 Butler Ave. | Pahline, O. C., <i>So.</i>           | 75 Anthony, E. Providence |
| Munson, R. L., <i>Sr.</i>           | H. 44           |                                      |                           |
| Munyan, E. C., <i>Fr.</i>           | M. 316          | Paine, G., <i>W. Fr.</i>             | 66 Benefit                |
| Murnan, G. F., <i>Jr.</i>           | H. 2            | PAINE, Mrs. H. W., <i>Instr., W.</i> | 147 Benefit               |

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| Palmer, A., <i>Jr.</i>                 | U. 44            | Pierce, F. H., <i>Gr.</i>                  | E. Machias, Me.                      |
| PALMER, A. DEF., <i>Assoc. Prof.</i>   |                  | Pierce, G. L., Jr., <i>Sr.</i>             | C. 18                                |
| 71 Elmgrove Ave.                       |                  | Pilling, L. G., <i>Jr.</i>                 | H. 27                                |
| Palmer, J. H., <i>Gr.</i>              |                  | Pingree, M. H., Jr., <i>So.</i>            | 41 George                            |
| 1570 Lonsdale Ave., Lonsdale           |                  | Pinkham, M. O., <i>Sp.</i>                 | C. 4                                 |
| Palmer, R. M., <i>Sr.</i>              | H. 42            | Piper, C. A., <i>Sp.</i>                   | U. 33                                |
| Palmer, W. A., <i>W. Fr.</i>           | 1536 Cranston    | Piper, C. W., <i>Fr.</i>                   | B. 4                                 |
| Pantaenius, H. A., <i>Jr.</i>          | 81 Waterman      | Pitman, Miss M. A., <i>Gr.</i>             | 97 Williams                          |
| Parker, C. C., <i>Fr.</i>              | 15 Keene         | POLAND, W. C., <i>Prof.</i>                | 53 Lloyd Ave.                        |
| Parker, C. H., <i>So.</i>              | U. 19            | Pollitt, F. W., <i>Fr.</i>                 | 132 Angell                           |
| Parker, E. A., <i>Fr.</i>              | 18 Elmhurst Ave. | POPE, A. U., <i>Instr.</i>                 | 106 Governor                         |
| Parker, E. S., <i>So.</i>              | C. 34            | PORTER, H. K., <i>Fellow</i>               | Pittsburgh, Pa.                      |
| Parks, S. R., <i>Jr.</i>               | H. 5             | Post, C. A., <i>Sr.</i>                    | S. 5                                 |
| Parsons, S. H. H., <i>Fr.</i>          | 33 Angell        | POTTER, A. K., <i>Assoc. Prof.; Keeper</i> | <i>of Grad. Records</i> 212 Waterman |
| Partington, W. H., <i>Sp.</i>          | H. 5             | Potter, W. C., <i>Sr.</i>                  | H. 22                                |
| Payson, B. A., <i>W. Jr.</i>           | 66 Benefit       | Potter, W. J., <i>Fr.</i>                  | C. 34                                |
| Pearson, K. N., <i>So.</i>             | S. 6             | Price, G. R., <i>Sp.</i>                   | U. 26                                |
| PECK, W. T., <i>Trustee</i>            |                  | Purdie, D. J., <i>Jr.</i>                  | M. 314                               |
| 48 Princeton Ave.                      |                  | Purdy, M. M., <i>So.</i>                   | U. 10                                |
| Peede, T. R., <i>Gr.</i>               |                  | Purvis, W. B., <i>So.</i>                  | M. 321                               |
| Amherst, Nova Scotia                   |                  | Pyle, S. D., Jr., <i>Sr.</i>               | 100 Waterman                         |
| Pearce, Miss E. M., <i>Gr.</i>         | 507 Br'dway      | Quigley, T. H., <i>Jr.</i>                 | M. 332                               |
| Pearce, Miss K. U., <i>Gr.</i>         |                  | RADEKE, Mrs. G., <i>Adv. Council, W.</i>   |                                      |
| 125 E. Manning                         |                  | 92 Prospect                                |                                      |
| Peirce, W. T., <i>Sp.</i>              | C. 17            | Raia, J. E., Jr.                           | 272 Broadway                         |
| Pendleton, W., <i>So.</i>              | C. 32            | Randall, O. A., <i>W. So.</i>              | 556 Cranston                         |
| Perkins, E. P., <i>So.</i>             | H. 10            | RANDALL, O. E., <i>Prof.</i>               |                                      |
| PERKINS, J., <i>Dem'r.</i>             | 106 Waterman     | 100 Alumni Ave.                            |                                      |
| Perry, B. F., <i>Jr.</i>               | H. 24            | Ransbottom, H. W., <i>Fr.</i>              |                                      |
| Perry, F. C., <i>So.</i>               | U. 25            | 152 Congdon                                |                                      |
| Perry, C. I., <i>W. Jr.</i>            | 37 Somerset      | Raquet, C. R., <i>Sr.</i>                  | 54 College                           |
| Peterson, A. N., <i>Gr.</i>            | 55 Gordon Ave.   | Rathbun, E. J., <i>Gr.</i>                 | 58 College                           |
| Pettengill, I. W., <i>Jr.</i>          | B. A             | Rawlings, F. G., <i>So.</i>                |                                      |
| PHETTEPLACE, T. M., <i>Asst. Prof.</i> |                  | 635 Chalkstone Ave.                        |                                      |
| 1612 Broad                             |                  | Raybold, H. L., <i>W. Sr.</i>              |                                      |
| Philbrick, C. H., <i>Fr.</i>           | 106 Lloyd Ave.   | 26 Lillian Ave.                            |                                      |
| Phillips, J. C., <i>Fr.</i>            | 497 Hope         | Read, F. H., <i>Gr.</i>                    | Oaklawn                              |
| Phillips, W. L., <i>So.</i>            | H. 48            | Radio, J. H., <i>Fr.</i>                   | H. 16                                |
| Pickett, T. A., <i>Jr.</i>             | H. 43            | Reckling, R. W., <i>Sr.</i>                | M. 320                               |
| Pickles, A., <i>W. So.</i>             |                  | Reed, W. J., <i>Fr.</i>                    | H. 3                                 |
| 56 Dartmouth Ave.                      |                  | Reeder, E. H., <i>Fr.</i>                  | M. 433                               |
| Pierce, F. M., <i>W. Fr.</i>           |                  |  |                                      |
| 85 Ninth, E. Providence                |                  |  |                                      |

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| Regnier, A. E., <i>Sp.</i>                 | B. 1            | Roper, F. E., <i>Jr.</i>                          | M. 323             |
| Reid, D. A., <i>Jr.</i>                    | H. 42           | Rose, E. M., <i>So.</i>                           | M. 321             |
| Reilly, J. F., <i>Fr.</i>                  | S. 7            | Rosen, M., <i>So.</i>                             | U. 41              |
| Reinhardt, H. F., <i>Fr.</i>               | C. 8            | Rosenberg, H. M., <i>Fr.</i>                      | U. 31              |
| Repko, G. A., <i>So.</i>                   | 81 Waterman     | Ross, W. N., <i>Gr.</i>                           | 14 R. I. Ave.      |
| Repko, J. S., <i>So.</i>                   | 81 Waterman     | Ross, Miss S. G., <i>Gr.</i> , <i>Head Slater</i> |                    |
| Ricci, J. V., <i>So.</i>                   | 639 Charles     | <i>Memorial Homestead</i>                         | 66 Benefit         |
| Rice, K. S., <i>Fr.</i>                    | H. 1            | Rotman, I. H., <i>So.</i>                         | 151 Orms           |
| Richards, C., <i>Sr.</i>                   | 29 Francis      | Round, G. A., <i>Sr.</i>                          | 41 George          |
| Richards, M. A., <i>W. Sr.</i>             |                 | Round, L. A., <i>Sr.</i>                          | 132 Angell         |
| 34 Peck, Attleboro, Mass.                  |                 | Rouse, J. E., <i>Fr.</i>                          | C. 24              |
| RICHARDS, Miss E. L., <i>Librarian, W.</i> |                 | Rowand, Miss E. I., <i>Gr.</i>                    |                    |
| 169 Power                                  |                 | 67 James, E. Providence                           |                    |
| Richardson, C. C., <i>Gr.</i>              |                 | Rowe, I. S., <i>Sr.</i>                           | B. 9               |
| 18 John, Valley Falls                      |                 | Rowland, J. H., <i>So.</i>                        | H. 1               |
| Richardson, G. C., <i>So.</i>              | No. S.          | Ruger, A. C., <i>So.</i>                          | 7 Aplin Court      |
| Richardson, O. P., <i>Jr., Jr.</i>         | C. 16           | Ryther, C. E., <i>W. So.</i>                      | 98 Cushing         |
| RICHARDSON, R. G. D., <i>Asst. Prof.</i>   |                 | Ryther, R. E., <i>W. Fr.</i>                      | 98 Cushing         |
| 256 Doyle Ave.                             |                 | Saacke, J. A., <i>Jr.</i>                         | H. 11              |
| Richardson, R. P., <i>Jr.</i>              |                 | Salisbury, H. P., <i>So.</i>                      | H. 27              |
| Dighton, Mass.                             |                 | Sanger, R. C., <i>Gr.</i>                         | 49 University Ave. |
| Ricker, C. H., <i>Fr.</i>                  | H. 30           | Scally, R. A., <i>Sr.</i>                         | C. 14              |
| Riley, Miss E. F., <i>Gr.</i>              | 69 Barnes       | Schmidt, F. C., <i>So.</i>                        | 4 Manning          |
| Roalf, T. H., <i>Jr.</i>                   | M. 426          | Scholze, E. A., <i>Fr.</i>                        | Saylesville        |
| Robbins, L. F., <i>Sp.</i>                 | U. 44           | Scholze, W. F., <i>Jr., So.</i>                   | 81 Waterman        |
| Roberts, A., <i>Gr.</i>                    | 35 Pitman       | Scranton, R. B., <i>Fr.</i>                       | No. S.             |
| Roberts, M. E., <i>So.</i>                 | C. 29           | Schutz, Miss L. <i>Gr.</i>                        | 31 Daboll          |
| Roberts, T. H., <i>Fr.</i>                 | 76 Fifield Ave. | Seagrave, F. W., <i>So.</i>                       | 47 Camp            |
| Roberts, V. D., <i>Fr.</i>                 | C. 29           | Sears, B. E., <i>W. Sr.</i>                       | 10 Verndale Ave.   |
| Robertson, C. N., <i>Jr., Fr.</i>          | C. 30           | Seaton, J. W., <i>So.</i>                         | 100 Waterman       |
| Robertson, W. C., <i>So.</i>               | U. 17           | Seidel, H. G., <i>So.</i>                         | 4 Manning          |
| Robertson, W. H., <i>So.</i>               | 81 Waterman     | Selina, G. N., <i>Fr.</i>                         | M. 321             |
| Robinson, B. I., <i>Fr.</i>                | U. 41           | Semle, F., <i>W. Fr.</i>                          | 127 Benefit        |
| Robinson, J. F., <i>W. Jr.</i>             | 77 Camp         | Semonoff, J., <i>Jr.</i>                          | U. 41              |
| Robinson, P., <i>Fr.</i>                   | 48 So. Angell   | Semonoff, L., <i>Sp.</i>                          | 21 Robinson        |
| Robinson, R. D., <i>Fr.</i>                | C. 10           | Seybolt, R. F., <i>Sr.</i>                        | 94 Angell          |
| Robinson, R. S., <i>Jr.</i>                | 41 George       | Shaeffer, E. J., <i>Sr.</i>                       | 81 Waterman        |
| Roche, B. G., <i>W. Fr.</i>                | 66 Benefit      | SHARPE, H. D., <i>Trustee</i>                     | 130 Angell         |
| Roelke, H. E., <i>So.</i>                  | B. 10           | Shaw, R. G., <i>Jr.</i>                           | S. 5               |
| Rogers, M. C., <i>Fr.</i>                  | 120 Tockwotten  | Shea, J. J. <i>Jr.</i>                            | 6 De Foe Pl.       |
| Rogers, Miss M. L., <i>Gr.</i>             | 80 Clyde        | Shea, R. L., <i>Sp.</i>                           | Centerdale         |
| Rollason, H. D., <i>Fr.</i>                | U. 30           | Shedd, T. C., <i>Fr.</i>                          |                    |
| Root, W., <i>So.</i>                       | H. 20           | 432 Walker Ave., E. Providence                    |                    |

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|---|----------------|--|---------------------------|
| Shedd, W. D., <i>Sp.</i>                      |                | Somers, C. R., <i>Fr.</i>                      | U. 27                     |
| 432 Walker Ave., E. Providence                |                | Southwick, F. B., <i>W. So.</i>                |                           |
| Sheldon, I. R., <i>Sr.</i>                    | H. 41          | 9 Star, Pawtucket                              |                           |
| Sheldon, M. H., <i>Fr.</i>                    |                | Spalding, E. P., <i>Fr.</i>                    | 273 Indiana Ave.          |
| 30 Park Place, Pawtucket                      |                | Spencer, G. H., <i>So.</i>                     | U. 43                     |
| Shepherd, L. A., <i>Jr.</i>                   | U. 51          | Spicer, E. S., <i>Sr.</i>                      | No. S.                    |
| Sherman, W. A., <i>Jr.</i>                    | H. 45          | Sprackling, W. E., <i>So.</i>                  | H. 36                     |
| Sherman, W. C., <i>Gr.</i>                    |                | SPRAGUE, W., <i>Trustee</i>                    |                           |
| 297 Highland Ave.                             |                | Narragansett Pier                              |                           |
| Shippee, L. B., <i>Gr.</i>                    | 38 Congdon     | Stadtfeld, H. M., <i>W. Fr.</i>                | Phenix                    |
| Silcox, C. E., <i>Sec'y, College Y.M.C.A.</i> |                | Staff, A. E., <i>Jr.</i>                       | 81 Waterman               |
| C. 4  |                | Stanhope, C. A., <i>W. Jr.</i>                 | 125 Governor              |
| Simpson, J. C., <i>Sr.</i>                    | 138 Doyle Ave. | Stanley, H. W., <i>So.</i>                     | B. 13                     |
| Sims, C. F., <i>Fr.</i>                       | C. 30          | STANTON, Miss E. B., <i>Registrar, W.</i>      |                           |
| Singsen, A. G., <i>So.</i>                    | 12 Tobey       | Bristol  |                           |
| Singsen, E. L., <i>So.</i>                    | 12 Tobey       | Starkweather, J. K., <i>Fr.</i>                | C. 10                     |
| Sisson, Miss C. E., <i>Gr.</i>                | Wickford       | Steere, A. D., <i>W. Sr.</i>                   | 66 Benefit                |
| Sisson, C. P., <i>Jr.</i>                     | 54 College     | Steere, A. E., <i>W. Fr.</i>                   | 66 Benefit                |
| Sisson, R. E., <i>Jr.</i>                     | 54 College     | STEERE, Miss R. P., <i>Cataloguer J. C.</i>    |                           |
| Skelding, S. M., <i>Jr.</i>                   | No. S.         | B. L.  | 84 Waterman               |
| Skillings, R. F., <i>Jr.</i>                  | C. 18          | Stevens, C. J., <i>Fr.</i>                     | U. 60                     |
| Slade, A. A., <i>So.</i>                      | U. 17          | Stevens, M. P., <i>W. So.</i>                  | 98 Cushing                |
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PLAN OF THE PRINCIPAL  
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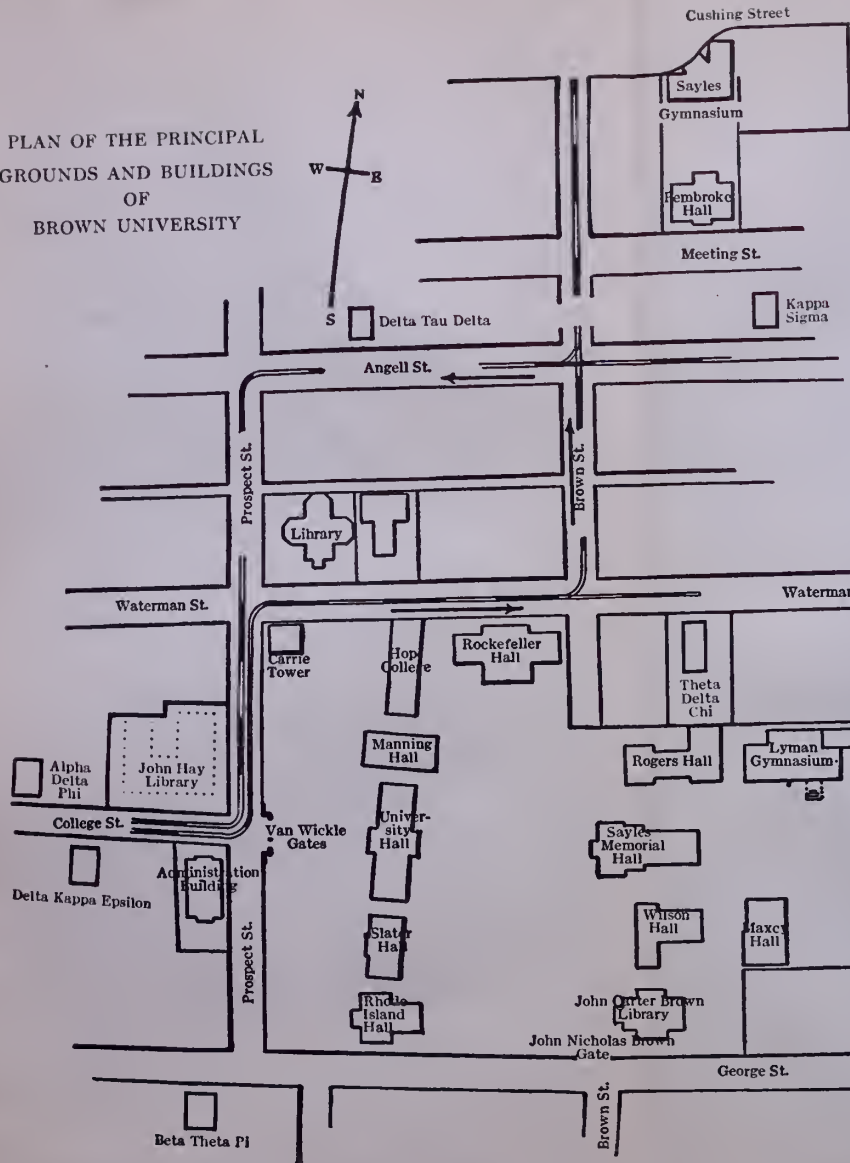


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PLAN OF THE PRINCIPAL  
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*University Library Building* (1878), gift of John Carter Brown.  
*Carrie Tower* (1904), gift of Paul Bajnotti, of Turin, Italy, in memory of his wife, Carrie Mathilde Brown, of Providence: clock tower.

*Administration Building* (1902), gift of Augustus Stout Van Wickle: general offices of the University.

*Van Wickle Gates* (1901), gift of Augustus Stout Van Wickle: principal entrance to grounds.

*Rhode Island Hall* (1840), gift of Rhode Island men and women: biological laboratory and natural history museum.

*Slater Hall* (1879), gift of Horatio Nelson Slater: dormitory.

*University Hall* (1770, interior remodeled 1885): dormitory, lecture rooms, and offices. Used during the Revolutionary War as barracks and hospital by American and French troops.

*Manning Hall* (1834), gift of Nicholas Brown: art museum, hall, and lecture room. An enlarged copy of the Temple of Diana Propylea in Eleusis.

*Hope College* (1822, renovated 1891), gift of Nicholas Brown: dormitory.

*Rockefeller Hall* (1908), gift of John D. Rockefeller; occupied by the Brown Union.

*Rogers Hall* (1882, with additions): chemical laboratory; machine shops and University heating station at rear.

*Sayles Memorial Hall* (1881), gift of William Francis Sayles: University Chapel, lecture hall, portrait collection, great organ given by Lucian Sharpe, lecture rooms, seminary rooms and libraries.

*Wilson Hall* (1891), gift of George Francis Wilson: physical laboratory, psychological laboratory, lecture rooms.

*John Carter Brown Library* (1904), given to the University by the Trustees under the provisions of the will of John Nicholas Brown: library of rare Americana.

*John Nicholas Brown Gate* (1904), gift of Mrs. John Nicholas Brown.

*Maxey Hall* (1895): dormitory, lecture rooms, seminary rooms, botanical laboratory, herbarium.

*Lyman Gymnasium* (1891), gift of Daniel Wanton Lyman; with Colgate Hoyt Swimming Pool (1903), gift of Colgate Hoyt.

*Engineering Building* (1905): laboratories and lecture rooms of the departments of Mechanics and Mechanical Drawing and of Mechanical and Civil Engineering.

*Caswell Hall* (1903): dormitory.

*President's House* (1901).

*Pembroke Hall* (1897), built by the Rhode Island Society for the Collegiate Education of Women: recitation building of the Women's College.

*Sayles Gymnasium* (1906), gift of Frank Arthur Sayles: gymnasium of the Women's College.

All gifts, legacies, and bequests for any department of the University or any phase of its work should be made payable to "Brown University, in Providence, in the State of Rhode Island and Providence Plantations."

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